DATE 2 Nov 1964
Pg.# 1

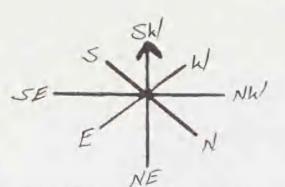
		F	E	/V			
	time	species		dir.	hgt.		loc.
	1015		-			extrance of Pearl Harbon	
	1017	Ruddy Turnstone	201			gravel bars at entrance	
-	1033	Pomarine Tager	1			light phase	
	1033	g e	1		1	light phase	
	1034	1+	1		/	ight please	
	1034	7.	'				
	1041	11	J			dark phase	
	1053	Noddy Term	2	SE	low		
	1104	Wedge-tailed		6.7	,	NA THE	
		Shearwater	1		low	1 Charles and the second of th	
		Pomarine Jaeger	1	SW		light phase	
	1122	Wedge-tailed SHEARWATER	3	5W	low	the top he will a	
						May 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		BMATINE JARger Wedge-tailed	1	F	10W	light phase	
	1141	Shearwater	1-	SE	low	8º 6	
	1145	Noddy Bp.	2	NW	1000	P-/	
	1	Streammater		NW	low		
					1	Towards and the same of the sa	
		Brown Booky		E	1000	IMMAtare	1
		Pomarice Jueger	1	low wat.	er	light phase	
	1155	Terns	2	E	100		
	1201	Pomarina Jaeger	1	.0	ca 50'	light phase	
	1208	11 /1	1	5W	905-25	" (vot sara a above)	
	1209	Shearwater - Petrel	1	3	low	light below	1
	10.11						
	1211	wedge-toil shearnater	1	NE	"		
	1211	11 21	1	27	11		
	1227	11 11	2	N	11		
	1253	11 11	1		11		
	1303	P .	1	N		Dark Phase	
		Pomatine Jaeger	1		751	Sallowing ship	
	1325	(1 1 ₁	7		11	" - adult with black cap, light	
	1335	Shearwater	1	E	low	underpart.	
	1337					y .	
		P . 7	4	E	10 EW	} Slusted from water - all in one flock	
	1344	Pomarine Jarger	7			all light phose	
	1374	Wedge-tailed	1	E	10W		
	12.	Shearwater					
	1359	Is. Petrel	1	N	10 w		
	1412		1	WE	low	3847	
	1112	Dark-Rumped Petrel	1			2.04.3	

DATE 1 Nov 1964
Pg.# 2

		/\	IF.	E			
	time	species	#	dir.	hgt.	remarks	10
	1430				- · ·	the 4 faegers still following and feeding in the	
	143/	Wedge-tail Shearwater	1	N	low	goeboge dreped by the strips	
	1449	11	1	SENE	loc 11		
/	1531	large Ptero droma	1	NE	1/_		
	1529	shear at	1	NE	i.		
	1536	Flock			-	vot actively seeding, but mulling	
		Sooty term	1			around. (I dark phone weelso - tail)	
		shearwater	200	t 25			
	1545	Flock -				- not actively feeding, but milling	
		Common Wooddy Tern	5+			arouds	
		Wedge-tail Shearwater	ΖŚ±	5"		25%	
	1604	wedge-fail Shearwater	1	55			
	1610	11 11	1	5E -		- deil Phon	
	1610	11 11	6	S			
		Small Pterodrana	1	4			
		Wedge-tailed Shearwater	1	N			
F	1645	Flock Wedge tailed Shearwater	80+	N		Flock I bird, seen to feed but rest of	
		SMALL Pterodroma	1	N		I dark phase Wedge-tail birds appeared to be migrating	
F	1703	Flock Wedge-tailed	Mr.	Ca		probably feeding; large fish (skipjack) observed; at least I dark phase Wedge-tail	
		Sheanvater	75+			FINI VERIGE-1411	
		Sooty Tern	5	1			
F	1720	Pomarine Ineger Wedy tailed Thear wason		V	low	alighting in water dabbling around; avising after extended feeding states	
	1732	WEDGETAILED SHEARWATER	1	N	l land	The state of the s	
	1746	Wedge-tailed		A /	Low		
	1750	Spearwater	/	N	low		
	1757	Prerodroma Wedge-tailed	1	NW	100		
		Shearwater	1	E	low		
	1800		-			apparent sunset	
	18/2	SMALL Plerodroma	1	NE	low		

commenced; 0637

		£ N	E	N	(ommenced: 6637	
~	time	species	#	dir.	hgt.	remarks	loc
	0651	Gook's Petrel		Ē	low	Circling but not fishing	
	0656	Large Pteredroma	CH,	NW	vie	Probably at least I was Juan Formandez Petrel	
	0657	1:01		1	~ -	Apparent Sunvise 5 5 un - 06 453	
	0721	cook's Petrel	1	NW	low		
		11 11 11 11 I	1	nu	10 w		
		Juan Fernandez Petrel	3	NW	10w		
7	0730	4 7	-7	5	low	_E	
F		Crok-Bonin Pet.	21	5	1000	feeding	
F		Wedraetail		4 is			
		2 hearward		**	2.0	4 *	
F		Pterodroma	1	1+		, small, cook's Peter size, but head + neck	
F		Frigate Bird	1			appeared all white. Underwing and similar	
F		Juan Fernandez	3			to cooks but white one a is gray with	
2	4	U ir	0	N	1000	" little contract between don't grayanea.	
	0749	Sooty Torn	90	E	medium-	Fooding	
FS		Juan Formanda	7	巨	law	1 red ma	
		Park-bumped Pot.	j	E	104	4	
1	画	wedge tailed shewwood	2	E	low	-1/	
-	0820	Greata Frigate	1	E	med-hig		
				c	low		
		lwedge tail shearwale	1		110		
	0831	Large Pterodroma		NW	low		
	0850	Large Pteradrom	1	5	low		
CA 0900	0853	Cook's Petrel	2	5	low	- SHIP STOPPED	
	0916	Pterodroma	1	NW	low	STOPPEV	
	0925	1		O1	to 751	immature	
		Small Pterodrom	1	.5	low		
	0936	Tropicbird	1	S	300 ca		
	0940	shearwater/petrol	1	NW	bew		
	0941	Cook's Retriel	1	N	low		
	0950	Wedge-triled		5			
	0952	Streamwater Call Det	1		low		1
	1008	12.00	1	5	to 501		
		21 14	2	NW	To 50'		
	1015	4 4	1	SW	to 301		
	1023	Tropicoird or	1	5	to 301		
		Fairy Tenu	1	5W	To 50'		
	1036	WIEDERTAILED SHEARWATER	1	5	Low		
	1042	11 11 11	1	SE	11		



		E	1	N			
	time	species	E #	dir.	het.	remarks	loc.
	1105 -		-	~ _		- UNDERWAY.	
	1109	Wedge-tail shearwater	1	U	100		
		Sooty or Grayback	2	NE	/οω		
	1158	Pterodrom a	,	NNW	100/150		
	1201	Flock.	,		1001130	word activel .	
		Sooty term				- wood actively feeding looks on if flock is breading of The two ternsat 1/48 were	
		wedge tail shearwater	5	+		Vulody leaving this - (lock - Same of the terms	
	12/2	Cooks Petre! Wedge-fail Shownater	1	3 SE			
	1213	wedge-fails heaventy	1	SE			
	1240	cooks petrel	1	SE	1000		
	1252	Sooty Tern	2	NW SE	1000 to 301		
	1258	Park-rumped? Petrel	1	NW	to 50'		
	1345	Petrel	1	SE	low	Bulwer's Petrel or # Storm Petrel	
FF	1401	Feeding Flock Great Frightebird Scoty Term	1	O _A		At least 1.5 miles AWAY	
	1418	Cook's Petrol	1	W	low		
FF	1430	Feeding Flock JUAN FERNANDEZ	1	0,	low		
		Cook's Petrel Kermadec Petrel Great Frigate Great Frigate	1			observed catching a flying fish out of the Air	
		Wedge tailed Shearwater Souty Term	3				
FF	1435	Feeding Flock Sooty Tern Wedge-tailed Shearwater	8	Ca	low		
	1439	Cooks Petrologia small Pterodogia large Pterodogia White-tailed Tropic bird	5			dove into water from 100 feet	

_	ime	species	#	dir.	hgt.	remarks	loc.
	1440	Juan Fernand Petrel	2/	N	low		
1	1443	Wedge-triled Streamunter	3	NW	low		
	1447	11 1/	1	ENE	11		
-		Pterodroma	1	SE	11	-1, 8	
	1454	Sooty tern	4	5w	"		
- 1	1454	500ky(?) Tern	7	0	,1		
	1435	Pterodrom a	1	SE	11-		
- 1	1-	Shearwaler/Petre 1	3	5	76 50'	archingup & stying like Sooti, Shoowwaters but too par out to tell	
- 1			21	SE	low	Gut too par out to tell	
- 1	1523	/(F:1/:0	1	1'	1,		
- 1	1600	Frigate bird Flock	1	G	To 50	Immalure	
			30	+5		- feeding but very scattered es if	
		Wedge - Lail Sheamoth		+		getting ready to despera.	
		Jaarternandee Petrel					
		Pterodroma	10				
		Cooks Polal					
		Bouin Estand Petral	1	\$ 409-	then,	for good contrast	
		Sheavualen/Petrel	5	±1			
	1608	Sooty Term	2	7E-			
		Small Pterodroma	1	SSE			
	1619	Cook'S PETREL	1	SE	Low		
	1629	JUAN FERNANDEZ PETREL					
		GREAT	1	SE	Low		
	1631	FRIGHTE BIRDS	2	0	150'		
	1729	Japanese White-Eye	2	NE	851	one attempted to land on TV antenna on	
	18.15	, le Lye				Blying bridge, but changed its mind & flew on.	
	1747	Island Petro	1	SE	10 w		
	1750	Sooty 2					
		Shearwater	1	2 E	1000		
	1759	4-	T	SE	1000		
	1800	Cooks/Banin Is.	1	SE	10 00		
		Wedge-tailed Shearwater	1	SE	100		
	1815	ACAT THE CO					
						Apparent Smet	



	E		N			
time	species N	E#	dir.	hgt.	remarks	loc.
0654	SMALL Plerodroma	1	E	Low		
0656		-	-		- SUNRISE	
0658	COOK'S / BONIN PETREL	1	3	Low		
0721	Wedge-tailed Shearwater	1	5'	low		
0725	Look's Bowin	1	N	low		
	u "	1	N	low		
0726	u u	1	N	low		
0737	# # # # # # # # # # # # # # # # # # #	1	NW	low		
0741	Tuan Fernand Petrical	/	NW	low		
0752	large Pterodrom	41	5	low		
0755	Cooks/BONIN Petrel	1	NW	low		
0755	пи	1	SE.	low		
0759		1	SE	low		
0801	ии	1	SW	low		
0804	Wedge-Tailed SHEARWATER	1	SE	low		
0809			W	low		
0811	4 4	1	SE	low		
0815	COOKS/BONIN Petrel	1	NW	low		
0827	Peterodroma	1	NW	low		
0828	Souty Streamunter	9	5	to 50		
0905	Pterodroma	1	5			
0910	sooty. Shearwater	V6+	5			
0910	shearwater/ Petrol	1	5			
0925	11 11	1	54)			
0925	Sooty Shearwater	60	±5 5			

0927 Alexandry 1 E law 3557 Alexandry 1 E law 3577 Alexandry 1 I I I I I I I I I I I I I I I I I I	time	species	E#	dir.	hgt.	remarks	loc.
1007 11 2 3 W 11 1 3 W 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1				
1007 Janus Bernander 1 NW 11 11 11 11 11 11 11 11 11 11 11 11 11	0955	Pterodroma	,	N	**		
1007 Janus Bernander 1 NW 11 11 11 11 11 11 11 11 11 11 11 11 11	0955	11	2	sω	1)		
Refred 1 NW 11 11 11 11 11 11 11 11 11 11 11 11 11					11 -	- slying as if heading for a seeding (1. 1	
1007 Socky (C) Shermake by S 11 1027 Cooks Scaning 1 NW 11 1040 Cooks Scaning 1 SE 11 1042 Social Frights 3 E 11 1043 Cooks Scaning 1 NE 100 1137 Cooks Scaning 1 NE 100 1138 Cooks Frights 1 NE 100 1139 Cooks Frights 1 NE 100 1150 Cooks Scaning 1 NW 100 1150 Cooks Scaning 1 SW 100 1150 Cooks Scaning	1007	Juan Fernandor Petral	1	NW	,,,	11 11 11 11 11 11 11 11 11 11 11 11 11	
1039 Juny Termorter 1 NW " 1040 Cooks/Besin 1 SE " Herrid Retrol 1 E " Great Rightin 3 E " Great Rightin 1 NE 100" 1137 Great Frightin 1 NE 100" 1157 Cooks/Besin 1 NV 100 1202 Pterradroma 1 NN 100 1202 Pterradroma 1 NN 100 1202 Pterradroma 1 NN 100 1203 Pterrad I SW 100 1204 Pterrad I SW 100 1205 Pterradroma 1 NN 100 1206 Pterradroma 1 NN 100 1205 Pterradroma 1 NN 100 1206 Pterradroma 1 NN 100 1207 Pterradroma 1 NN 100 1208 Pterradroma 1 NN 100 1209 Pterr	1007	Varas ot a			4.1	et to to to to to to	
1037 Just Ferringer 1 NW " 1040 Cooks Barin 1 5E " 1042 Inge Plandon 2 NW " 1040 Cooks Petrol 6 E " Hernid Retrol 8 E " Jank brownsaring, white below with moreon funds broad thank about the strong about 137 Cooks Brown 1 NK 100" 1137 Cooks Brown 1 NW 1000 1202 Pterreborns 1 NW 1000 1202 Pterreborns 1 NW 1000 1202 Pterreborns 1 NW 1000 1205 Cooks Brown 1 SW 1000 1205 Cooks Brown 1 SW 1000 1206 Cooks Brown 1 SW 1000 1206 Cooks Brown 1 SW 1000 1207 Februs 1 SW 1000 1208 Cooks Brown		Shearwaker	45	+ 5	11		
1040 Cooks/Bavin 1 SE 4 1040 Cooks/Bavin 1 SE 4 1040 Cooks/Bavin 2 NW 0 1100 Cooks/Bavin 2 NW 0 Herrid Retrol 5 E " Great Frighting 3 E " Land promotioning, while below with recent frighting 1 NE 100' 1139 Great Frighting 1 NE 100' 1157 Cooks/Bavin Petrel 1 SW 1000 1202 Pteratrooms 1 NW 1000 1202 Pteratrooms 1 NW 1000 1212 Cooks/Bavin 1 S 1000 1228 Cooks/Bavin 1 S 1000 1228 Cooks/Bavin 1 S 1000 1400 Flock - Feeding Sooty Shown to 16 Sooty Shown to 1	1027	Cooky Boan in			11		
Petrol St 4 1042 Inge Plandon 2 NW 0 1000 Cosk's Petrol 6 E " Hernid Rtrel 1 E " Great Frightin 3 E " (27 + 1 inm) [27 + 1 inm) 109 Great Frightin 1 NE 100' 1157 Carks/Ronin Retrel SW 1000 1202 Pteratroma NW 1000 1210 Casks/Ronin SW 1000 1210 Casks/Ronin SW 1000 1228 Cosks/Ronin SW 1000 1228 Cosks/Ronin SW 1000 1400 Flock Feeding Socty Shounder 18 Shew-ota/strel SW 1000 After 8 menulo they began Styin (archie up)	1038	Juan Fernande Petrel	1	NW	и		
Herald Retrol 8 E Therald Retrol 8 E Therald Retrol 8 E Therald Retrol 9 I SW low There 9 I SW low The Test of 1 SW low The Te	1040	Cooks/Bonin Petrel	1	SE.	4		
Herrild Retrol & E Herrild Retrol & E Sweat Righting 3 (23 + 1 imm) Hank proundering, while below with round white both white both white below with round theoret band through where a land through where a bank are about eye. Phoener follows Perful III 100' 1157 Carks/Bonin SW low Retrol SW low law law law law law law law law law la	1042	large Pterodom	1	NW	U		
Great Frigation 3 E Land productioning, white below with mornous ducky tracest band through white both with the south white solvening above, darker area about eye. 1139 Great Frigation 1 NE 100' 1157 Cooks/Bonin 1202 Pteratroma 1 NW low 1210 Cooks/Bonin 25. Petrol 1228 Cooks/Bonin 15 Sw 1400 Flock	1100	Cook's Petrel	6	E	"		
139 Great trigation NE 100' white both above, backer area about eye. Phoeny file I Petul off 157 Cacks/Bonin SW low 1202 Pteratroma NW low 1210 Cooks/Bonin S Isw 1228 Cacks/Bonin SW low 1400 Flock Feeding 500ty Sheumaha 6 Shear way/stral white belly after 8 minutes they began offing (arthy up)	1	Herald Petrol	P	E	11	- near size of Juan Ternandez Catrel, how	veva amallar
139 Great trigation NE 100' white both above, backer area about eye. Phoeny file I Petul off 157 Cacks/Bonin SW low 1202 Pteratroma NW low 1210 Cooks/Bonin S Isw 1228 Cacks/Bonin SW low 1400 Flock Feeding 500ty Sheumaha 6 Shear way/stral white belly after 8 minutes they began offing (arthy up)		Great Frigatebio	3	E	n	lack brown white below with	
139 Great Frigation NE 100' 1157 Cooks/Bonin SW 10W 1202 Pteradroma NW 10W 1210 Cooks/Bonin S 10W 1210 Cooks/Bonin S 10W 1228 Cooks/Bonin SW 10W 1400 Flock Feeding Sooty Shearnely 16 Shear-ota/lated white belly after 8 minulo + they began flying (archig up)		(28 + 1 imm)				white down above Saches area	
Petrel 1 SW low 1202 Pteratroma 1 NW low 1210 Cooks/Bonin 1 5 100 1228 Cooks/Bonin 1 SW low 1400 Flock Fredring Sorty Shounday 16 Shear-oten/12 tral 1 white belly after 8 minules they began flying (archigunge)	1139	Great Frigatain	11	NE	100'	Thought delend to faith of y	
12 10 Cooks/Bonin 1 5 100 12 28 Cooks/Bonin 1 5W low 1400 Flock Fredrig Sooty Sheumoto 16 Shear-orta/12 tral 1 white belly after 8 minules they began flying (archigunge)	1151		1	SW	low		
1228 Cooks/Borin 1 5W low 1400 Flock Feeding Sooty Shoumotor 16 Shear = otar/letral 1 white belly after 8 minutes they began flying (archie upo)	1202	Pteradroma	1	NW	1000		
1400 Flock Fredrig Sooty Shournotor 16 Shear notor/ 2 frat 1 white bell, after 8 minules they began flying (arthing upo)	1210	. /	1	5	18w		
Sooty Shoumator 16 Shear notay/ 2 frat 1 after 8 minutes they began flying (arthing up)	1228	7 1/ 1 - 1	1	5W	low		
Shear notaffetral 1 white belly after 8 minutes they began offing (arthing up)	1400	Flock -	-	-		- Feeding	
after 8 minules they began flying (arthing up)		1				- a lute belly	
						after o	hig ugo)

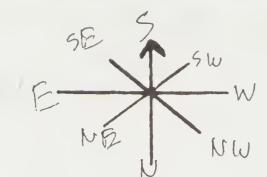
	1=		~		
time	species	VE	dir.	hgt.	remarks loc.
1425	Sooty Shearwater	60	±5 -		- av viding ship
	Small Horodrom		Sw	low	
1445	Souty Shoarwate				appear to be feeding.
1452				100 to	
	Shearwater	25 4	5.5	10w	
1452					
	Greater Frigatebird	1	E	40'	
1457	Shearwater/	1	NW	1000	
	Petrel				
1510	Great	1	NE	50'	
	Frigatebird				
1529	. /	35	+55	Low	
	Shearwater .				
1555	11	4	S	10 w	
1555	Wedge-tailed Stearwater	1	NE	1000	
1604	Blue-faced	,		201	11.1
	Booby (inm)	1	6	2.0	
16 22	- L	30	5	,	
	Shearwater	50		1000	7 2
1623	" "	20	5	1000	
1659	Wedge-tailed				
1601	Shearwater	1	NW	low	
1710	Sooty Shoar (3)	1	5	low	Lone bird; come fairly close to ship; one observer san
1721	Small Ptorodroma	1	W	low	Silver underwing flathes; two observers sow none.
	Lauge Pterodrom		w	low	
11/2	Luck Danin Kathal	1	Sw	low	No English Child
1731	Sooty Shear water	1		50 - lan	Non-feeding flock; moving swiftly
1735		+	5	100	
1738	Petrel	1	SW	low	Wondering back tooth in front of ships
	Sooty Treasmoder	30	±10500	lino	253
1740	Sooty Shearwale		54	low	
1740	11	2	2	low	N / 1/2
1740	41	1	5	1000	ag la
1740	16	1	5	low	7/10
1744	Cook/Bonin Petro	91	Sw	low	
	29. Pterodroma		0	Low	
1804				Low	
	Soofy Shearwal	1			

	P	JE	N			
time	species	#	dir.	hgt.	remarks	loc.
1804	wedge-tailed	1	NW	low		
1809	Shearwater Shearwall		5	low	101	
1810	Sooty Shearcoley			law	Non-fooding flock moving rapidly	
1813	1 (1					
1017	wedge-tooled Thearward	1	SE	1.w		
1814	Sooty Shearwater			1000 00	Non- feeding flock; strung out over considerable	
				low-50	Non-feeding flock; strung out our considerable distance in narrow lines.	
1	Shorty Shut, (?)	2	5	low		
1819	Sooty Shearwales	4	5	low		
1823			±10 5	low	Non-fooding flock; strung out in navrow lines	
1826	11	17	5	low	Flock	
1829	11					
1833	11	45.	5 5	low	Flock	
1834	и	i	S	low	1787	
1837	Sooty Shourmaber?	1	5	low	Dark; heavier body + wing beat Pale foot . 1)	
1838	Sooty Shearwake	- 3	5	low		
1835			-	-	Apparent sunset	
						23
					. 0 4	1
					/2.1	
						1
	-					

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0	644	E	16	N			
	ime	species	100	dir.	het.	remarks	loc.
		Sooty(?) Shearwate			scaling		
0	716	Sooty Shearvater	1	5.		Apparent survise	
	721	ft a	1	5	11	in production of the same of t	
C	728		2	5	11		
		Sooty(?)Shearwater		5	11		
		Wedge-tailed Shearnafor		NW	# low		
0	818	Cooks Patrel	1	SSE			
		Shear ates/letres		N			
0	1832	Sooty Shearwater	20	£5 S	Rating		
10	837	heirse Yterodroma	2	N	low		
0	1842	Cook's Petrel	2	NW	low		
1	1901	Cooks/BONIN Petrel	1	NW	low		
6	0903	Cooks/Bonin Petrel	1	NW	low		
	0909	Cock's Petrel	1	SE	low		
	0917	Cook's Petrel	3	NW	low		
4	0924	Cock's BONIN	1	NW	low		
	0936	SMALL Pterodram	1	NW	low		
- 1		Cooks Bonin	1				
6	97.20	Petre!	1	SE	low		
0	0948	Cooks Petrel	2	SE	low		
4	0452	Cooks/BONIN Petrel	2	N	low		
	0955	Cook's Petrel	1	NW	1000		
	0959	Wedge-tailed Shearwater	1	N	low		
	1003	Cooks/Bonin Petrel	2	5	low		
	1010	Cooks/Bonin	1	SW	low		
	1010	11 11	1	Sw	1000		
	1010	u 11	1	SW	low		
4	1023	4	1	N	low		
	1028	Cook's Retriet	1	5	low		
	1032	Cooks /Ralla					
		COOKS/BONIN PETREL	1	NW	Low		
	1034	Cook's FETREL	1	NW	Law		

ime	species N	F	dir.	hgt.	remarks
1036	WEDGETAILED SHEARWATER	1	NW	10w	
1039	Cook's /BONIN				
	PETREL	1	NW	Low	
1041	11 01 1	2	SE	-21	
1045	Cook's Petrel	1	NUI	-1	
1045	Cook's BONIN				
	PETREL	1	NW	-it	
1046	Cook's PETREL	1	N	n	
1130	WEDGETAILED	,			
1150	SHEAR WATER	1	SE	/ '	
1151	Sooty Shearwater Pterodrom a		5	11	
		1	5	11	
1302	Shearwater	1	IV E-	11	
1304	,	1	NW	11	
1315	Greater	1	E	40'	Jarding
	Frigatebird (imm)				
1321	Leach's Storm	1	5	1000	- or Harcourts
	Petrel				
1358	Souty Shearwater	2	5	10cm	
1417	Juan Fernanda Petre 1	1	N	1000	-possibly a subradult
1433		7	E	low	2 adults (lappeared to the with specks on mich-backy), 5
		7			Predominantly brown with breast bonds; I mostly
					dull white below, brown- werey above, with no breast
		1			bond; I in between the prodions two descriptions
1459	Sooty Shearwater	353	10 5	SCALING	Aeri .
1502		19		1	
1502	Petrel	1	SE	low	
					(1)
1503	Tropichird	1	5	1501	probably White-tailed PHOTOGRAPHED
1538	WEDGETAILED				
	SHEARWATE	R/	SE	1200	
1544	Wedge-triled			1,	
	Steamwater	1	NW	low	
1615		1			T/ + -
1632	Wedge-tailed				- Johnston Island turned South
	Stearwater	4	E	low	



DATE 5 Nov 1264
Pg.# 3

	1	ŀ	J	10 00			•
	time				hgt.	remarks	loc.
	1654	Scoty Shearwater	2	SE	Scaling	Close flock	
	1702	\$ 10 minta	1	w	low		
	1720	Pterodoma	1	2	1/		
	1723	Pterodoma Sooty Shearwater	4			- avaiding ships	
		Flock -				- feedling	
		great 7 rigateles Plerodiono	3			very for out	
		Sheaw Dy/Petul	104	-		2 7 5 6 6	
		Booly	1				
	1845		-	†		- SUNISET!	
,							
							_

	5 TW	V
SE	F	- NW
20		/ 1

0700 ME dir. het. species loc. remarks time 0715 SUNTISE Shearwater/petrel low 0827 19. Pterodroma 10 W Wedge-tailed Shearunten 0841 C low 0847 Cooks Petrel SW low 0848 GOKS/BONIN Petrel low 0920 TROPICBIRD - SITTING IN WATER - DISTANT Pterodroma NE low Sooty Shearcate 0944 5w WEDGETHILED 0946 SHEAR WATER 0 Lg. Pterodroma 0946 Probably all part of 0946 5ml. 11 55 W 0.952 SOOTY (?) a fleel in last stoges SHEARWATER 55 W 0956 of breaking up. Pf. GREATER - Feeding FRIGHTEBIRD 2 1001 / E JUAN FERNANDEZ PETREL O Low SHEARWATER PETREL 2 Red-tail tropic-bird 1025 59 W 1030 White-weck NNE low Petrel 1050 Cooks/Donin Petrel 11 WNW 1143 W 11 suggested a bark-rumped Petrel but much too far away 1156 Large Tterndroma NW wedge-tailed Stranuater 1158 SW 11 Sooty (?) Shrute Lone bird; didn't the linings 1204 11 Blue-faced Booby 1308 to 100' observed feeding (dove into water) SW 1329 Cook's / BOHIN PETREL 3 NE Low JUAN FERANDEZ 1329 PETREL W Low Great Frigatebird NE 200 ca. 400 CA. NE 1343 1350 Cooks BONIN W 10w Petrel 1404 Red-TAILED flushed from water To 300 Tropicbird



DATE 6 November 1964
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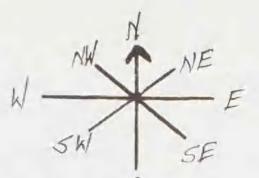
		1 1 1 2	_			
time	species	*	dir.	het.	remarks	loc.
14-42	JUAN FERNANDEZ	,	W	low		
	Great Frigatebild	1	0	200'ca		
1510	shoarwater/					
	Petrel	/	SE			
15R5	11 11	1	SE			
1721	TUAN FERNANDEZ			,		
1	Petrel	/	SE	low		
1725	Cook's BONIN	1	at	1-		
	reisei	1	DE	loca		
1823	Shearanterpetrel	1	SW	low		
1825	JUAN FERNANDEZ PETREL Shearwater/petrel Shearwater/petrel Shearwater/petrel	1	SW	low		
1855					apparent sunset	
ş i						
				1		
				1		
				1		

4 2) TIFU! 30 5// 8 hes Jos gev

Jagor Janestone 8 750 W FNig 8773 10978 Derle-rumo.

S, FINA SH Jeory John John Jeory Je

	5	E	5			
time	species	#	dir.	hgt.	remarks	loc.
0645		-			- begin observation	
07/5		-		-	- apparent sunvise	
0724	Cook's BONIN PETREL					
	TOKEL	-	WNW	Low		
0730		-		-	- stop for plankton samples	
0/44	WEGETAILED SHEARWATER	1	5 0	Low		
0745	PTERODROMA	2	0	15		
0750	11	1	NW	a		
0750	11	1	5	11		
0835	Cook's PETREL	1	0	11		
083.5	PTERODROMA	1	N	71	- CROSSED PATH OF ABOVE COOK'S & Was 1/2 again as	
					upper wing. UNDER-WING bonn PARK languishing Marks in	
0840					Thin White line in center. Black 'hash' Mark COMPLETELY CROSSING UNDERWING & wide. Neck breast, welly & under tail	VHITE.
0 10					CANTON LANGUAGE	
					THE REPORT OF THE PERSON OF TH	
0941	Juan Fanandoz Pot	1	SE	how		
0943	Sm. Pterodroma		NE	100		
0945	Wedge-tailed shoowala	t	5	u		
0948	Shear water Petro	1	NW	1,		
0958	/	1	58	+7		
1008	coon 5 letrel	1	w	11		
	Juan Fernandez Petrel	1	N	11	flushed from water	
1017	wedge-tailed Shearwater	i	W	et.	Dart phase	
1017	Cook's Petral	,	SW	1.1		
1025	Cook's Bonin I sland Petrol)	E	ix.		
1027	Juan Fernander Petrel	1	SE			
1033	Lrq. Pterudrom	2 m	5	4		
1045	Shearvader	1	SE	11		
1046	Juan Fernandez Petrel	1	35	. *		
1053	hq. Pterodroma	1	N	11		
1103	Juan Fernandez Petrel	1	sa	4	flushed from water	



	4		SF			
 time	species	#	dir.	hgt.	remarks	loc
1106	SOOTY SHEALWARER			-		
1125	SHEARWATER /PETRE	23	5	-	Possibly A Wedgetail in Group	
1204	Coaks/Bonin Petrel	1	5	low		
1311	Cooks/Burin	1	5	low	Turned N.E.	
1435	Sharruater patrol	1	Sw	1 ow	Possibly a sooty shownestor; wind blown	
1438	Kermadec Petrel	1	5w	low	possibly a Pterodrama ; wind blown	
	,	,	14/	,	Light phase	
1552	Shearwatexpetrel	1	W	low	wind blown	
	Pterodroma	/	5	10w		
1557	Juan termander Petrel	1	2	/aw		
1635	cooks/Bonin	1	NW	low		
	1. Petrel					~
1708	JUAN FERMANDE PETREL	2	NE	en:		
1712	n n	3	0	11	} feeding type flight but wat seen to do so.	
1712	Cook's PETREL	2	"	-13:	All grouped together after few minutes.	
1712	PETREL	1	-11	-1		
17/5	RED-TAILED TROPIC BIND	ı	NE	Low	- Arose from Water.	
1720	JUAN FERNANDE	2	0	4.1		
1720	COOK'S BOHIN	,			ABOVE BIRDS PROBABLE REMNANTS OF Flock.	
1720	WEDGETAILED	1	0	i)		
	SHEARWATER	2	NE	71.	- m /	
1730	WEDGETAIL ED SHEARWATER	Ttz			PART OF OHE FORMER Feeding Flock WHICH is	
	JUAN FORMANDER	3			PART OF OHE FORMER Feeding Flock WHICH IS NOW FAIRLY WELL SCATTERED.	
	Cook's PETREL	1				
1740	COOK'S / BONIN PIETREL	10+				
1740	Cook's /BONN					
	PETREL	1	NIL	Low		
1754	WEDGETAILED SHEARWATER	2	a	. (-		
1754	SHEARWATER / PETREL	2	9	in		
1758	LUAN FERNANDEZ (?) PETREL	-	A	0		
1800	Cook's /BONIN	1	0			
	PETREL	1	SW	15		
1						

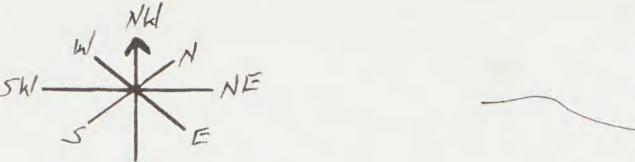
	IXI	1	5			
time	species	4	dir.	hgt.	remarks	loc.
1803	WHITE-NECK PETREL	1	5W	LIW		
-	WHITE- NECK (?) PETREL	1	5W	13		
1874	SHEARWATER / PEAREL Lg. Pterodroma	/	SE	. 1		
1817	Lg. Pterodroma	1	SE SE	, 1	- DISANT	
1818	Cook's PETREL	1	NW	vt.		
	JUAN FERNANDEZ PETREL	+	9	1.7		
1823	Cooks/BONINI PETRES	/	a	1/		
1828	COOKS BONIN PETREL		NW	ı f		
1832	,	1	SE	Low		
1835	-	-			SCHOOL OF FISH (SMALL TUNG-like) Jumping NEAR PORT BOW.	
1838	PTEROPROMA	1	NW	Low	- DISTANT.	
CA. 1857			and the second s		SUNSET!	





DATE 08 Nov 64
Pg.#_____

	, ,		5			
time	species	#	dir	hgt.	remarks	loc.
0715-	SPECIES		-	116.	Appavent senvise, about	
0737	Cook Bonin Petr	0 >	E	low		
0741				- 1	urned approximately SE and stopped	
0744	Red-footed Book	1	w	resed-low	Fishing lecured of soct sides a solt	
0145	wedge tailed			1000	Fishing leisurely off fort sides; on adult	1
0.1.3	Shearwater	1	0		11	
0750		_			Hat turned about 5.	
0756	Leach es/Harcourt storm potvel).	NE	low	Black; small; some white on vomp, couldn't 562 whether tail forked or straight; paying no attention to ship	
0806			-		Turned S.F.	
0811					Moving SE Slowly	
0847	Red-tailed					
1.0.1	Tropic bird	1.	5	med-logh		
0870		-	-		Turned Ei	
0822	Pteradroma	1	W	low		
0824					Full ahead NE.	
0825	She water potro	71	W	low		
0846	Lug-Ptero droma	1	SE	1000		
0907	Thearnater/Petrol	1	5E	21		
0907	Red-tail tropichied	2	6	300		1
	Sooty Shearanter		5	low		
1015	Pterodroma	1	ww			
1034	Wedge-tail					
	Shearwater	2			- moving infrant of Bow	
	Masked Booky	1	N	med- ww	Immature; no "fishing" activity noted.	
1250	Cook's /BONIN					
	PETREL	1	5	tow		
1400	Bird	10		Low	- suported by a atch sound til Sooty Shears ale	
	011-4	10		Tour !	Alford My and	
1435	Shear atu/ Petro	1	NW	low		
1450	Pterodroma	1	55E	11		
1536	19. Pterodroma	,				
15.37	5ml. "	,	SE	te		
1540			SE_	37		1
1558	Cook & Bonn	,	-		COURSE CHANGE TO NW	
100	Is. Petrel	1	SE	low		
1604	CHRISTMAS IS.					
1001	SHEARWATER	1	5W	1		
1615	South			low		
	Shearwater	11	5	low		
1650	Juan Fernance	2/	SE	100		
	Petrel		-			



DATE 8 Nov 64
Pg.# 2

		5	1	E			
	time	species	E#	dir.	hgt.	remarks	loc.
16,58	1458	WEDGETAILED SHEARWATER		SE	Low		
		Small Petret	1	5.	low	Flow divertly into son; appeared black + 5 mall, but son maybe affected color visulation	
	1250	Har courts reachs Tefrel (?)		NE	low	Rather far out; a small, dark Oceanodroma;	
		refre(c)				several Time, Hought Travela a with	
	1831	Pterodroma			10	vump flash-not positive	
	1832	Wedge-tailed	1	E	low		
		Shearwater	l	SE	lon		
	1834		R	SE	low		
	1836	17	1	SE	low		
	1846		_			Apparent sonset	
			-				
			1		1		

DATE 9 November, 1964
Pg.#

		15	13	N			
	time	species	#	dir.	hgt.	remarks began obxustos 0710	loc.
				/		Sumine Ca. 0728	
	0757	Sooty Shearwater	4	SE			
	0758	Wadge fail Shear- water	1	Ē			
	0815	Pterodroma	,	SE			
	0817	Red-Tailed	,		104	0 + 4.	
		Tropicbied		M NE	100'	shout relice	
		Shearwater petrol	1	0	low		1
	0915	Lig. Pterodroma	l	5W	10 w		
	0934	Wedge-tailed Shearwater	R	5	low	One at them photographed.	
	1002	Pterodroma	,	N	low		
	1006	wedge touled	,	IA			
		Shearnater	1	NE	low		
	1022	Juan Fernadoz		1.11	1.		
	1001	Petval	1	N	low		
	1034	Wedge-tailed	7	N	16		
	1046	Than Fernanday	5	10	bw		
		Petre (i	0	low		
	1126	74.	-	N	low		
	1126	Pterodroma	9				
	1245	Shearwater	1	5	10 w	all dark,	
	1322	cooks Petrel	1	5W	10 w		
	1335	Juan Fernandez	1	sw	low		
	, 4 - 7	Petrel					÷-
	1427	Red-Tailed Tropicbind	1	500	60'	flashed from water - no retrices	
		(adu 17)					
	1453	Souty	3	5	low		
		Sheat water			,		
	1511	Shearwaterpetre	1	W	low		
FF	1533	Wedge-tailed Shearwater	4	0		Feeding Flock partially shot	
		Large Pteradroma	5	9		Feeding Flock partially photographed at least I definite Juan Fernandez Retrel	
		Small Pterodroma Shearwater/petrel				apparently all low -1 ternangez Ketrel	
		- O	1			Apparently All dark shearwater	
		21-1	1			Fish leaving on more out of flying	
						Pterndroma appeared wight war who to f	
						Pterodroma appeared right over school of Stying fish	
						school appeared to be headed in NNE direction	V

		E	SF	M			
-	time	species	#	dir.	hgt.	remarks	100
1	1600	Shearwater/petrel echall Pterodroma	1	E	low		
	1608		1	N	law		
	1624	Shearwater Wedge-tailed	/	N S	low	All dark probably (No light color observed)	
		Sheamunter		-Vel	,		
	1626	1		500	low		
	1628	Wedge Tailed? Sheanwater	1	SW	low		
FF	1634	Great Frigatebil	12	On	150 CA.	Feeding Flock photographed	
		Wedgetailed Stearwater	30		low	flock deployed in long rectangular formation; at First moved parallel	
		Turn terminde			low	got up of water sugle to strip at right	
		Large Pterodron	1		low	Post water sugle to strip	
	1640	Town Town				No fish observed	
	16-10	Juan Fernande Petrel	2	5	low		
		White-necked	1	5'	1.	Moving toward feeding flock	
	1701	1414	1		low		
	1703		1	-	-	lurned WIVW	
	1717	Shearwater	20	N	10 w	7 00 /	
		Pterodroma	2	IV	/4	Thork	
-	1742	Cooks/Bonis	,		low		
		Is Petrel		w	1000		
	1839	Christmas Island (?) Shearmake	1	NW	19		
						NEW NOTE	
						7-70 Lul	
						514 /00	
				1	1		

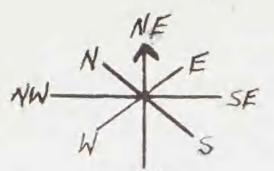
	time	species	W	dir	hat	remarks	loc.
		Wedge-tailed			,	- CHROLING	
		Shearwater	1	NE	low		
	0728	Wedge-tailed Shearwater	4	Cin	low	3 of them were cruising back and forth over large area west of ship 100-250 yards out during plankton drop.	
	0729			0		APDAMEN / SUNIFICE NO SPECIFIC	
	0730		-			ship stopped for plankton drop No dropping to	
	0746	JUAN FERNANDO				several of birds	
		Petrel	1	WE	low	Aso manged on	
		Small Pterodren	4/	5	low	SE side of strip.	
	0815					resumed proposess NE	
	0822	Wedge-tailed Streamwater	1	NE	low		
	0824	SMALL PHEROSTOR	4/	N	love		
		Christmas T-la					
		Skearwater	1	5	low		
	0848	Strenrunterpetre	11	N	low		
	0855	Socty Shearmite	12	5	scaling		
	0902	Spoty Streamunter	18	S	scaling and low		
	0907	Wedge-tailed			1060		
		SHEARWATER	1	Ca	low		
	0917	Shearwater?	1	SE	low		
	0922	Sooty Streamwater	1	SE	low		
		Shearwater	1	SE	low		
	0926	Pterodroma Sooty Shearwate		NSE	scaling		
	0937	Large Pterodrom		SSE	low		
	1014	White-Necked	7		1200		
		Petrel	1	NE	low		
	1020	Cook's Petrel	1	NW	low		
No.	1031	-tailed	,	NE	Bus		
3	1101	Wadge-Triled	1	141	Hory		
н		Sthearwater	1	SE	low		
	1102	Sooty Shearento	-22	5	scaling	definitely changed course to avoid flying abse to strip	
	1107	11 11	10	5	scaling		
	1110	Island ?	1	5	60	flushed from water	
		Shearwater				*	

ARRY

	. 51	d			
time	species	*	dir.	hgt.	remarks
1133	GREAT FRIGATEBIRD	1	E	1001	
1140	WEDGETPILED SHEARWATER	2	5	Low	
1233	SOOTY SHEARWATER	4	S	rik.	
1305	Red-tailed Toplebia	11	-	_	on water did not flush
	Sooty Shearwater		S	scaling	
	Kermades Petrel	1	W	u	Party above, mostly dark below underwing mostly dayle brown, with light brown to dull white black seen in primar ones.
1337	Souty Shearwater	1		scaling	with light brown to dull white black seen in primary over; also favts of secondary wing separation between forward a rear
1511	Shearwater	1	5	11	in rain squall
1513	17	2	5	"	er er og
100	37	1	5	11	
1547	Shearmater	1	IVW	Isw	11 16 14
1603	Mac Je L				
1632	Souty	1	W	100	11 17 11
	Shearwater	2	5	scaling	11 11 -11
1652	1.1	5	2	10	a a n
1653	Rod-Footed Booby	1	5W	lew	" (sub-adult)
	Wedge-tailed Shearwater	1	sw	law	
1743	Frigate Great	12	NE	High	
1835	WEOGETAILED SHEARWATER	1	5W	Low	
1835	RED-Footed Boosy	1	5W	Low	imm- (1st yR. Plumage)
1942			-		Apparent sunset
240					
1140	Tern	1	Production ()	-	- calling

time	species	E.	dir.	hgt.	remarks	loc.
0735		-			- began watch after sunrice	
0736	Wedge-tail Shearwater	1	S	low		
0737	Red-tail Tropic bird	1	E	600'		
0755	Blue-faced Booby	1	Q	100-200	direlina over abis 1 1	
0801				10	circling over ship during plankton detail subadult collected by Gould	
0814	Wedge-tailed Shearwater	4	Ca	low		
0829	Great Frigatebins	1	NE	200 ca.	subadult of seen capturing flying fish in front of ship	
0846	Wedge-tailed SHEARWATER	4	5	low	Front of ship	
	Showwater/petrel	1	8	low		-
0856	Wedge-triled Shearwater	2	SW	low		
0902	Leach's/Harcourt	1	5	low		
0937	RED-TAILED TROPICBIRD)	E	_	MROSE FROM WATER	
0942	Sml. PTERODRAMA	2	E	Low		
0945	WEDGETAILED SHEARWATER	1	as	,,		
1010	Wedge-tailed Shearwater	2	NE	4		
1042	11	1	5	11		
1047	Shearwater/ Petral	1	5	"		
1053	Wedge-tailed Shearwater	1	5	11		
501	11	1	5	11		11
1107	11	1	NE	n	Possibly break-up of feeling	
11 08	ir-	1	w	11		
1 10	11	1	N	14	arose from water (
(12	t ₁	3	5 556	u		
11 14	11.			1		
1152	Cooks/Bonin	1 .	5	11		
1247	Red-footed	1	N	fi		
	Booby	1	O1	to loca		

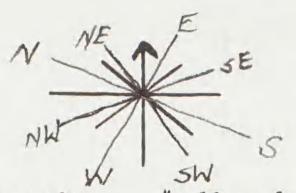
ime	species	#	dir.	hgt.	remarks	loc
1304	White-tail Trapichird	1		250-800		
5-27	Sooty Terms	4	N	m ed (100) 3 adults, 1 immature; photographed as silhouettes	
	Widge-tail Shear water	*	N	low		
	Shearwater	2	5	Scaling	No underwing wing trings seen.	
1540	Shearwaterspetral	1	5	low	Storm to 5+56 of ship; grey, leaden seas; reduced	
1543	Cooks formin Is.	1	W	low	Visibility	
1557	Masked Booty	}	BS	100'±	Immature; followed ship for 20 minutes swung by Port side then south; photographed in	
1648	Wedge-tailed Shearwater	1	56	tow	two individual scenes	
1629	white-tailed Tropiebird	ł	NE	150'	Photographed	
1642	Red-tailed Tropic bird	1	SE	100/±		
1710	Wedge-tailed Shearwater	1	NE	low		
1714	Wadge-tailed SHEARWATER	1	SE	low		
1716	Wedge-tailed Streamwater	1	SE	low		
1736	Wedge-tailed Shearwater	2	NW	low		
	hodge triled Shearwater	3	SE	low	Not actively but circling As if deep Feeding Flock but circling As if deep school of fish present	
	Shearwater/petre Wedge-tailed Shearwater	X	SE	low	25±5 Wedge-tailed Shearwater 1 Cock's Petrel	
1814	Wedge tailed Shemwater	X	SE	low	Around submerged Tapanese fisting Net	
	Shearwater/pared		5	low		
	Wedge-tailed Shearwater	1	S	low		
1844	Great Frigatebird	1	SW	1	immature appears to be moving ahead of min squall	
1850		-			apparent sunset	1



time	species	#	dir.	hgt.	remarks	10
0735			-		- COMMENCE OBSERVATIONS - MONAPPARENT VISABALITY 500 yd. SUNRISE	
0745			-			
0825		-	-		- STOP FOR PLANKTON SAMPLES - UNDERWIAY - (VISABILITY NOW 2 Mi.)	
0837	WEDGETAILED				NOW 2 Mi.)	
C.	SHE ARNATER	1	N	100	- APPEARED TO HAVE DARK UNDERWINGS. REST OF CHARACTERS LIKE WEDGETAIL. (POOR LIGHT CONDITIONS but Observed WELL.	
0902	SHEARWATER				SERVED WEZE.	
1)0777			5	1000	- AT edge of RAIN SQUALL	
	Bonin/Cook's Petrol	3	Nu	low		
0924	Wedge tail	7	,	,		
* * * * * * * * * * * * * * * * * * * *	Shearwater	rl	W	10W		
0951	Greater Frigute	1	0	high	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	Sooty Shearstr	2	SE	Scaling	Birds cut across bow; definately turned to avoid	
loin	Shearwetor	1	SW	low		
1035	Wedge-tailed					
	Shearwater	2	5	low		
1038	6.1	3	5	10w		
1042	11	1	NE	low		1
1053	Sorty (?) Shear water	-1	5	Scalin	Not underwing livings; bird all doubs; close to	
1105	Cooks/Bonin Petrel	1	SE	low	Ship	
1124	Wedge tail					
	Sheavwater	1	NE	tt		
1214	17	1	SE	11		
1553	500ty (2)	,				
1323	Shearwater		0	17		
1233	Shearwater	1	E	4		
1244	Petrel	1	5	0	white below, lack above, mottled with white	
	Pterodroma				across the neck, whitish rump, upper tail	
					very light gray, but also	8
					extending of book of back of back	
	1 4.11		re		undering while with broad blackbader	
1253	Shearwater	1	SE	low) The state of the	
1253	cooks/Banin Sete	11	5	10 w		

		W	<i>w</i>	3			
-	time	species		dir.	hgt.	remarks	loc.
	1306	Wedge-tailus Shearwater	1	5	10 w		
	1327	il	1	5	low		
	1403	11		N	low		
	1425	(1	1	5	16w		
	1427	1 {	1	5	low		
	1447	!(1.	5	10 w		
	1450	//	1	NE	,,	F.	
CA	1605	11	1	ESE	11	- COURSE CHANGE TO EAST N- 5	
	1617	10	1	SE	11	W	
	學多						
	1715	SHEARWAYER PETREL	1	XW	11		
	1748	500TY (?)				- aute Pistant & dark birds, Lost From View into Trough.	
	\	SHEARWATER	2	5	11	Wew into Trough.	
	1802	WELKOETAILED					
		SHEARWATER	1	0	(1)		
	1847	Juan Fernandez	1	500	17		
	1855	Very re/		And the second	ton on you	Agyurent Sunset	
•							

	time	species	~ #	dir.	hgt.	remarks	100
	0727					- Apparent Sunrise	
	0914	SHEAR WATER PETREL	#	8	40 W	1.4	
	0956	JUAN FERNANDEZ PETREL			Low		
	1022		1	N	300°ca.	Female	
	1023	Great Frigatebird Pterodroma	1	56			
-	1148	Sooty ? Shearwater	1	500	low scaling		
		Great Frigatebird	1	É	30-40	ad 31	
	1438	Pterodroma	1	NE	low		
	1504	Pale-Footed Stearwater	1	5	lows	(very large all dark plumaged shearwater (approximately to 1/2 again as large as Wedge-tailed Strearwater) bill light colored	
	1507	Cook's Petrel	1	5	low	feet not observed (probably hidden by plumage flight sluggish with no scaling or arcing observe observed in excellent light for about two	1
	1521	-11 -11	1	5	a	Minutes as bird crossed bow (less than	
	1730				1	Passed ST	
	17312	Log. Plovodromo	,	56	1		
	1801	Greater Friegal		5	high		
	1802	Wodge-tail &	,	1	low		
	1803	11	,	N	10w		
	1882	11	2	S14.1	low		
	1845		1	-	100	Apparent sunget	
		-				a feet of the same	1



		W		5W			*******
_	time	species	#	dir.	hgt.	remarks	loc.
	0713		-		79	- APPARENT SUNKISE	
	0823	Wedge-tailed		0	,		
		Sheanwater	1	G	low		
	0956	Frigate bird	1	N	50'	al q	
	1157	wedge-tailor					
	1101	Shearwater	3	ENF	low	7 1 1 1 1 1 - 1 - 1	
		Christmas				as flock following with ship. Christians	
		Island				Island only slightly smaller & zirth	
		Shearwater	1			stiffer wing beat - lold wings more	
						rigid & with more of an are.	
	1205	Wedge tailed					
		Shearwater	1	ENE	6.1	7 isings flock Clin	
			•		low	¿ joined flock flying parallel with	
		Red footed Booby	1	ENE	low) skip	
	1	1				Flock present until about 1210	
	1551	Sheavnater	1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		Petrel	1	E	an		
	307	Caok's Bonin	2	5W	low		
	1700	E EXVE	2				
	1106	GREAT FRIGATE	2	NE	100'	-18,139	
	1750	PTERODROMA					
	///	TERODICOMIA	1	SSE	Low		
	1830					apparent sunset	
							-
	3						1
					1		

	5	w				
 time	species	#	dir.	het.	remarks	loc.
0700		-	wies		Frabable survise	
0732	sootale) shearnota	1	3	scaling		
2460	1/1	2	5	scaling		
8814	Streamater Petrel	1	SE	low		
0844	Sheave ator Potvel		N	lon		
0852	Soot Sheare	4	5	11		
0859	White-tail Tropicbird	1	-		- Jeedin	
1011	shearwater/	1	SE	1000		
1054	500 ty Shearwater	20	5	low	one individual appear larger than the rest. Thotographed one of flock.	
1059	11	1	5	100	The state of the s	
1105	Souty Shearwater	1		7800		
1105	Wadge-tailed	2	NE	low		
	Shearwater		NE	4	Soofy Shearwater shot 450-1255 from whale Boat	
1136	11	1	NE	low		
1340	Gladarward	1		1.		
1344	Retrel"		E	lous		
	Cook's tele	1	SE	low		
1355	Trafic bird	2	0	high		
1405	Red-tailed Tropic bird	,		high	Thotographed	
1420	Birch	1		low		
1435	Shearwater	1-	ENE	10w	Seen from bridge; in sun for 5I watchers flushed from roater	
1437	Great Frigatebird	1	6	4001	Phatographos	
1443	(ad. 0) Wedge-tailed Shearwater	T	NE	V 050	Com water; I harvassed from above by Frigato	
1443	Gooty Ghearwate	4	NE	-11	11 11 15	8
1451	Sooty (?) Shearwork	21	5E	lone		
1459	Sooty Shearward		5	telon		
1515	Red-Ambed Tropicbird	1		7	on water entire time as slip passed; appeared to	
1519	Christmas Is.			4	on maker entire time as skip passed; appeared to have some food in mouth + throat.	
	Shearwater	1	5	low		

15 Nov 1964 DATE 1609 - Kerzy. 1540 loc. dir. het. Basically dark - see #1 reas; well photographed SENW 1531 low Christmas IS Shearieaters 10 w 1531 See # 2 i photographed low E 1540 Christm wedge-tail Sheonwater 1602 WE low Photographed (603 scaling + low Scoly Shearting 5 1607 1609 Lermadec hight Phase; flow pavallel to ship for while low NE Farely photographed (quite distant) Doory Shearwal 3 Calm 1648 Souty Shearwater 1650 NE low 1658 Wedge-tail Chamale low 1702 Shearnote sp. Photographed Shearwater Sooty Shear-water low Shearwater NE 10W Wedge-tail 1822

Basically dark; primaries quite black; white at base of primary feethers. bown black on underwing with darker hown-black on edge of underwing, light brown on underside. Tight brown to med brown on central back; first kill bell gate colored. No arching. Ratherfalous flight. Not y wite sluggish that y loves theavier than goody Shoowater. Underside founded toward grey-brown on good tight. A Christmas Island Sheawaker had come animate carlier + 1 came by as close to this in these 2 (50-60 yels). Also in comparison, they all x mas much darker with no lite thrown underparts + no what in upper wing. Approx.

the first perhaps smaller than Wedge-tail; size opinions varied; I thought smaller.

The underwealth on face, didos of noch, next of ventral; clear undertail coverts (I think Fox).

Underwing mostly white with black (small an outh) on leading edge secondary wing pal).

Brown black to jet black on primary, bring facts (coverts Addilly) appeared lights on firmary); secondary coverts, stoach + lover brook grey to grey-brown; tail dark (?)(?)

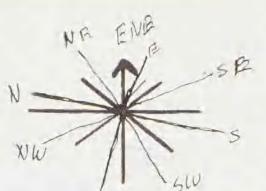
Thousands); secondary coverts, stoach + lover brook grey to grey-brown; tail dark (?)(?)

Grown or dark - depending and open to lete grey above; cap was dark (grey or arching; a guides Clight than previous shearwake sp. but use flight but was bird had stook; build. Sirvels diebut tilt on diagonal in flight; a every

	NEENE		
+	THE STATE OF THE S		
W-		\$	
00 cm	MAN WSWS W	6	

ies # dir. hgt. loc. remarks time species 0645 Wedge-Tailed Shearwater 2 ENE low apparent sunrise 0705 0733 Great Frigatebird 1000'ca male 0743 Pterodroma NE low 0759 Large Pterodroms 1 NE low 0801 Terns medium feeding NE 0806 Large Pteradnoma 1 low NE 0807 Wedge-tailed low Shearwater NE 0828 Shearwater 1000 Wedge triled 0840 NE low Shearwater 100 0843 Shearunter to the Wedge-tailed 和层 NE SHEARWATER low 0858 Leach's Harcourts Sterm Petre 1 low 5 White-tailed sitting on water - did not flush 0917 Tropicbird (adult) 0922 Shear water NW Scoty Terr Fairy Tera Frigatebird wedge toul Shearwater Pterodrema Shearwater fleted · eight phase. 0937 Kermadec NW Petrel 1006 Shearwater / NE Petrel 1022 Red-tail 10' Tropichird - dark phase still present 1430 1035 Black - footed A16atros) white tail - collected by Gould; pick up took 50 minutes; lost long net-pok-Tropicbird circlein ships

1598 NE



DATE 16 Nov 1964
Pg.# 7

1-	anasta w	11	410 di-	hat	romarke	loc.
ime 1205	species	I	dir.	IIRC	Mushel from water	
17.05	Tropicbird	1	NE		flusted from water	
	(adult)					
1833	we ge-tailed	2	w	10 w		
	Shearwater			70 W		
	Souty Tern	1	W	low		
1\$37	Sooty Tern	T	IV	10 w		
1/37	Jaeger sp?	1	W		12mm.	
	Golden Plaver	1	G	low		
1301	Masked Booky	1	NE	80'	d. Id.	
1303	Leach's Harcours	1	5	low		
				7000		
1328	Cook's BONIN Petrel	1	1	for.		
	14161	1	14	low		
1335	Christmas Island					
1333	Shearwater	1	S	low		
1400	C + T	1	at-	1		7
1100	Sooty Term	工	SE	redium		
/	FAIRY TERM	/	103	medium	feeding diving into surface repeatedly find	raphel
	Shearwater/petrel	1	N	low		
	Wedge-tailed	_	6	,		
	Shearwater Leachs/Harcourts	5	CA	low	flyshed from water feeding observed	
	Storm Petrel	1	CA	low		
1439	White-tailed				Rhotographer well.	
	Tropicbird	1	Ca	300'ca.	I was a grapher well.	
1444	Wedge-tailed Shearwater	1	CA.	low		
			(2)	,		
1444	Shearwater/petres	/	01	low		
1519	Wedge-tail steamater	1	w	low		
1518	Frigate bird		2	high		
1514			ME	~	Wedge-tailed Shearwater - 1 - low	
					1 00 X4 1 8 1 vel 43x	
					700 m 12 mms _ m	
1528	Kermale Petro	,	NE	low	- 0 1+1	
	,	9	NE	uptdon	- AUN Mase	
1533		- 10	107 15	THE RESERVE AND ADDRESS OF THE PARTY.		

time	species	5 W #	dir.	het.	remarks	loc
	Shoarwatow Retrel	1	5	low		
1624	Wedge-tailed Shear water	1	SE	low		
1629	Leach's/Havery	c		1.		
1632	Petrel Greater Frigate	1	NW	(or High		
1	Wedge-tailed Ellearwafer		lu	law		
1637	Small Pterodrom	1	w	low		
1856	Sorty (?) Shearwate	-1	5	low+ scaling		
1706	FFEDING F	LOCK	6		Frigates - 2 High	
	Frigatebird Frigatebird Terms (scoty?) Shear water/		±10		Terns (probably sooty) - 35±10 - uproboun Probably much Shearwater/Petrel- 2 /ow mar	
1715	Leach's/Harcan	2				
170	Storm Petrel	1	5.	10a		
1721	We age-tailed Shearwater		5	low		
1725	Newell's Thearwater	J	5	11		
1730	Sooty Shearwater	4	5	scaling		
1732	_1.1	4	5	1/		
1734	sooty Torn	1	w	20'		
1734		1	6	201		
1734	White-tailed Tropicbild Shearwater/	1	6	1001		1
1735	shearwater/ Petrel	1	SE	low		
1753	Wedge tailed Shearwater	1	58	low		
1806	+/	1	SE	low		
10						

DATE 2 WOY 1964

Time at sunrise = Position at sunrise =

Time at sunset = 1800 Position at sunset = 20-48.0 N 158-52.0 W

Miles traveled from 0000 hours to sunrise =

DEPARTURE TO
Miles traveled from sunrise to sunset = 64

Miles traveled from sunset to 2400 hours = 53

	TIME OF FIX	TYPE OF FIX	LONGITUDE I	LATITUDE	
1.	1145W	VISUAL	158-01.5W	21-08.0N	-
2,	1245 W	LORAN	158-06.0W		
	14 34 W	LORAN	158-23.0W	20-58.5N	
	1835W	CELESTIAL	158-58-0W	20-46.5N	
5.	1925 W	LORAN	159-05.0W	20-43.5N	
6.					

DATE 3NOV 1964

Time at sunrise = 0645Position at sunrise = 19-59.5N 160-49.5 w

Time at sunset = 1814 Position at sunset = 19-26.00 162-16.00

Miles traveled from 0000 hours to sunrise = 65

Miles traveled from sunrise to sunset = 50

Miles traveled from sunset to 2400 hours = 57

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0634W	CELESTIAL		20-00.0 N
	0950W	CEL. & LOKAN	161-10,00	18-52.5N
	1155W	LORAN	161-17.0W	19-50.0N
	1505W	LOKAN	161-46.0W	19-38.0N
		LORAN	162-23.0W	19-21.0N
5.	1852W	100		
6.		24		

DATE 420V 1964

Time at sunrise = 0658 Position at sunrise = 18-37.0 164-14.5 166-05.0 166-05.0 166-05.0 166-05.0

= 65 Miles traveled from 0000 hours to sunrise

Miles traveled from sunrise to sunset = //2

Miles traveled from sunset to 2400 hours = 53

TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
0643W	CELESTIAL	164-13.0W	18-37.0N
	LORAN	164-22.0W	18-32.5N
	CEL. & LORAN	164-46.0W	18-25.0N
	LORAN	165-03.0W	18-18.0N
		165-33.50	1 18-08,5N
145500			
1900W	CELESTIAL	166	
	TIME OF FIX 0643W 0740W 1003W 1150W 1455W	0643W CELESTIAL 0740W LORAN 1003W CEL. & LORAN 1150W LORAN 1455W LORAN	0643W CELESTIAL 164-13.0W 0740W LORAN 164-22.0W 1003W CEL. & LORAN 164-46.0W 1150W LORAN 165-03.0W 1455W LORAN 165-33.5W

5NOV 1964 DATE

Time at sunrise = 07/2 Position at sunrise = 17-14.0N 168-01.0W

Time at sunset = 1845Position at sunset = 16-30.0 169-18.5 ω

Miles traveled from 0000 hours to sunrise = 67

Miles traveled from sunrise to sunset = /0/

46 Miles traveled from sunset to 2400 hours

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE	
1.	0653W	CELESTIAL	167-58.0W	17-15.5 N	
2	1122 6	CELYLORAN	168-38-0W	16-58.0N	
7	1450 W.	CEL THORAN	169-09.50	W 16-44.5N	
	1555W	RABAR TVIS	169-17.50		
	11.10 W	RADAR +VIS	169-21-0a	16-38.0N	
5. 6.	1926	CELA LORAN	169-18-54	16-13.5N	16595 168 41
Time	topicals to a	parate to John	1610		15 97 1 16975

DATE 6 NOV 64

= 14-33.20 169-06-2W Time at sunrise =67/7 Position at sunrise = 13-16.00 N 170-10.0 W

= 61 Miles traveled from 0000 hours to sunrise

Miles traveled from sunrise to sunset = /oc

Time at sunset = 1853Position at sunset

= 45 Miles traveled from sunset to 2400 hours

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	06554	CELESTIAL	169-06.7W	14-35,5N
	1040 W	CEL+LORAN	169-14.0W	14-11.0MX
	1150W	CEL& LORAN	169-19.00	0 14-03.0N
		CEL+LORAN	169-43.00	13-34-5N
	1600W	CERTORMA	11,0 a	13-13,0N
5.	1922 W	CELESTIAL	110-11	

DATE 7 NOV 64

Time at sunrise =0720 Position at sunrise = 12-06-0N 171-35.0w

Time at sunset = 1853 Position at sunset = 13-15.0N 17+07.0W

Miles traveled from 0000 hours to sunrise = 63

Miles traveled from sunrise to sunset = 77

Miles traveled from sunset to 2400 hours = 36

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	07010	Celestiel	171-32.0W	12-04.0N
	0937w	Cel+ Loran	171 35.000	12-17.0N
		Cel + Loran		12-39.0N
3.	11 37 W	a la Loran	171-21.00	12-53-ON
4	14 37W	Cel+ Loran	171-06-0W	13-18.0N
5.	19 15w	Celestial	121	
6.				

DATE 08 NOV 64

Time at sunrise = 07/7 Position at sunrise = 14-33.00 170-12.00

Time at sunset = 1849Position at sunset = 15-21.5N 169-49.0W

Miles traveled from 0000 hours to sunrise = 50

Miles traveled from sunrise to sunset = 84

Miles traveled from sunset to 2400 hours = 49

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0656W	Celestial	170-13.5w	14-20.0N
	1137 W	Cel 4 Loran	169-49.5w	14-45,0N
3.	1915W	Celestial	169-52,00	15-23 ON

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DATE 9 NOV 64

Time at sunrise = 0723Position at sunrise = 14-35N 171-29W

Time at sunset = 1900 Position at sunset = 13-36.0N 172-46-5W

Miles traveled from 0000 hours to sunrise = 83

Miles traveled from sunrise to sunset = //0

Miles traveled from sunset to 2400 hours = 43

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0703 W	Celesticel	171-28.0W	14-36.3N
	11 50 W	Cel + Loran		
	1547W	Celestial	172-49.54	13-39-0N
4.	1932w	Ceres		

5.

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DATE 10 NOV 6#

Time at sunrise = 0727Position at sunrise = 14-55.00 172-17.5 w

Time at sunset = 1855Position at sunset = 15-51.00 171-14.54

Miles traveled from 0000 hours to sunrise = 55

Miles traveled from sunrise to sunset = \$3

Miles traveled from sunset to 2400 hours = 43

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	6710 W	Celestial	172-19.5W	14-53.5N
	1147w	Cel + horan	171-53.5W	15-14.0 N
		Cel & Loran	171-22,3	1545.5N
4.	18,5W 6	Lel + Loren	171-12-5	
	1 //0			

5.

6.

Time at sunrise = 0727Position at sunrise = 16-21.5N 172-00.5W

Time at sunset = 1900 Position at sunset = 15-00.00 173 21.0 W

Miles traveled from 0000 hours to sunrise = 65

Miles traveled from sunrise to sunset = 1/3

Miles traveled from sunset to 2400 hours = 52

-	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
	0712 W	Celestia	172-01.0 W	16-21.0 N
	1215W	Cel + Lokan	172-24.00	15-55.0N
		Loren	173 21.0W	15-00.0N

4.

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DATE 12 NOV 64

Time at sunrise = 0735 Position at sunrise = 16-05.0 173-10.0Time at sunset = 1855 Position at sunset = 16-45.5 172-14.5

Miles traveled from 0000 hours to sunrise = 75

Miles traveled from sunrise to sunset = 72

Miles traveled from sunset to 2400 hours = 3/

	TIME OF FIX	TYPE OF FIX	LONGITUDE LATITUDE
1.	6750W	LORAN	173-10.0W 16-060N
		Cel + LORAN	173-13.0W 1609.0N
	1050 W		173 05.0W 16-17.0N
).	11 10 W	71 7.1	172 59,000 16-21.0N
4.	11,000	71 4.5	172 34.5.00 16-47.0N
5.	1600W	Le re	172 19.0W 16-45.0N
6.	1755W		1645.00V
7	1800	LORAN	172 10-0W 16 45.0W

DATE 13 NOV 64

Time at sunset = 1840 Position at sunset = 16-50.0N 170-51.0WMiles translate

Miles traveled from 0000 hours to sunrise Miles traveled from sunrise to sunset = 84 89 84

Miles traveled from sunset to 2400 hours

ACCOUNTS ON A STATE OF THE PARTY OF THE PART	TIME OF FIX	TY	PE OF FIX	LONGITUDE	LATITUDE
7	1-0730W	40	RAN	170-50.0W	16-49.5N
1.	1-0730W	20	RAN	170 38.0W	16-49.5N
2. 2	-1145W	401	EAN 4CEL	170 22.0W	16-49.0N
	- 1356 W	LORI	AN +CEL	170 03.5W	16-48.5 N
	- 1530W		+ PADAR	169-51.04	16-48.50
4. 6	-1720W	()	1 (169-36-5W	1650.0N
	-1750W		r (169-32.0W	16-51.0N
4	-1965W	10	11	169-21.54	16-5405N

DATE 14 NOV 64

Time at sunrise = 67/7 Position at sunrise = $17-3/.5 \times 167 48.00$

Time at sunset = 1828 Position at sunset = 18-07.00 166-17.00

Miles traveled from 0000 hours to sunrise 95

Miles traveled from sunrise to sunset

Miles traveled from sunset to 2400 hours

and the second leaves of the s	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0703W	Celestial	167-50,000	
2.	0903W	Josan & Cel	167-33.0W	17-38.5N
	10000	Loran	167-23.00	17-42.50
3.		Loron	167 13.00	17-46-5N
4.	15 47w	Loren	166-41.00	1736.3N
5.	15 4100	1	166-20.50	18-03131
6.	1820w =	2000	166-19.5W	18-08.5N
7.	1904W	Loran + Cel	100	

DATE 15 NOV 64

Time at sunrise = 6706 Position at sunrise = 18-4950 164-33.3 W

Time at sunset = 1896 Position at sunset = 19-14.50 163-08-50

Miles traveled from 0000 hours to sunrise = 62

Miles traveled from sunrise to sunset = \$55

Miles traveled from sunset to 2400 hours = 5/

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	C745 W	LORAN	164-57.5W	
	6955 W	LOR MN	164-09.00	18-5750
	1145 W	LORIAN	163-52.30	v 18-02-54
	16 16 W	LURRAN		1908-SN
		LORAW		19-17.5N
5.	1743 W			

DATE /6 NOV 0705.

Time at sunrise = 06/8 Position at sunrise = $19 - 49.3 \times 16/-34.0 \times$

Time at sunset = 175% Position at sunset = 16-56.00 /58-53.50

Miles traveled from 0000 hours to sunrise = 49

Miles traveled from sunrise to sunset = 92

Miles traveled from sunset to 2400 hours = 53

TIME OF FIX TYPE OF FIX LONGITUDE LATITUDE

1. 0745W LORAN 161-10.5W 19-54.5N

2. 1066 CORAN 160-50.0W 20-03.5N

3. 1145 LORAN 160 43.0W 20 05.5N

4. 1355 LORAN 160 28.0W 20-12-0N

5. 1600 LORAN 160 10.5W 20-12-0N

6. 1905 LORAN 160 10.5W 20-19.0N

DATE 17 NOV 64

22

Time at sunrise = 0645 Position at sunrise = 20 55-00 158-08.50

Time at sunset = Position at sunset =

Miles traveled from 0000 hours to sunrise = 54

Miles traveled from sunrise to sunset = 20

Miles traveled from sunset to 2400 hours =

-	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
	0636W	LORAN		2058.5N
	0740W	VISUAL	158-06-5	2059.5N
	0825W	VISUAL	158-03.0u) 21-04.5N
		11,500	158.00.5	-21-09-0N
4.	08510	VISUAL	10000	

5.

6.

MONTHLY REPORT OF AT-SEA SURVEY
NOVEMBER

Pacific Ocean Biological Survey

Division of Birds Smithsonian Institution Washington 25, D. C. This report is based on results and observations made on the sixteenth of a monthly series of investigations of the flora and fauna in a particular study area of the Central Pacific Ocean.

Observations covered a period of fifteen days, 2 November-17 November, 1964. The areas investigated were the same as last month.

Five members of the Smithsonian Institution Pacific Biological Survey Program participated in the survey; Patrick Gould (Biologist in Charge), David Brattley, Paul DuMont, Robert Sundell, Douglas Whitman. Alan Young and Robert Banner, engaged in oceanographic studies, represented Dr. Maxwell Doty of the University of Hawaii.

An additional feature of the trip was the 16 mm. motion photography of birds by Mr. J. D. Whitman.

TIME AND MILAGE OF DIURNAL OBSERVATIONS OUTSIDE THE GRID

Date	Total Miles Covered		Total Hours Spent
02	64		7.8
03	90		11.5
04	112		11.5
05	101		11.5
13	89		11.2
.14	95		11.2
15	85	٠	11.3
16	92		11.7
Total	728		87.7

TIME AND MILAGE OF DIURNAL OBSERVATIONS INSIDE THE GRID

Date	Total Miles Covered	Total Hours Spent
06	100	11.6
07	77	11.6
08	84	11.5
09	110	11.6
10	83	11.5
11	113	11.6
12	72 .	11.3
Total	639	80.7

SPECIES ACCOUNT

A total of 23 species, plus one identifiable subspecies, was identified on this trip. Twelve species were identified within the grid and an average of 6.7 species per day was recor ded. One new species, Pale-footed Shearwater, was added to the comprehensive list of birds found within the grid.

An overall decline in numbers of birds this month reflects the fewer number of migrants passing through the area, and the departure of other species that are either preparing to breed in southern waters or have finished breeding in this area. This decline was particularly noticable in the area of Johnston Atoll. The difference between this month and the same month of 1963 is also mostly due to the difference in migratory birds. It is my opinion that the figures for 1964 more nearly represent the "normal" situation than do those of 1963.

Black-footed Albatross (Diomedea nigripes)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	0	0	0
Non-Grid	0	3	5

The arrival of this species, for its breeding season, was about 12 days later this year tha last. It appears, however, that this species may be expected to show up in the area anytime in early November with possibly a few early arrivals appearing in October. No specimens were collected.

Wedge-tailed Shearwater (Puffinus pacificus)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	77	182	34
Non-Grid	118	501	74

The reasons for the greater numbers of birds this month as compared with October and last November are obscure at the present time. It perhaps represents a late influx of migratory birds from outside the area. No specimens were collected.

Sooty Shearwater (Puffinus griseus)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	1476	144	573
	25	904	1054

The peak of migration for this species occurred one month earlier this year tha last, but with the total period covered extended by at least one month. Poor weather conditions could be responsible for last years later and more compact migration. It is suspected that this years figures are most typical. One specimen was collected.

Christmas Island Shearwater (Puffinus nativitatus)

	Oct.,	1964	Nov.,	1964	Nov.,	1963
Grid	1		3		0	
Non-Grid	3		4		0	

The total numbers of this species are so low that it is impossible to determine distribution patterns from them. The apparent increase this month may be due to imporved identification ability on the part of the observers.

Newell's Shearwater (Puffinus puffinus)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	0	0	2
Non-Grid	. 9	1	2

As with the above species the small number of observations makes accurrate discussion impossible. The low number, however, is a continuation of the steady decline in numbers for this species.

Pale-footed Shearwater (Puffinus

A bird, well seen, was identified as this species on 13 November within 50 miles of Johnston Atoll. Several have been identified from the cromwell area in the past and a specimen was taken along the Leeward Islands in September.

Bonin Island Petrel (Pterodroma hypoleuca)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	0	0	?
Non-Grid	3	1	?

As suspected these birds are rare, but perhaps regular, within the area as a whole. No specimens were collected.

Cook's Petrel (Pterodroma cookii)

	Oct.,	1964	N ov.,	1964	Nov.,	1963
Grid	12		11		?	
Non-Grid	52		47		?	

These figures indicate a fairly stable population level for October and November. No specimens were collected.

Dark-rumber Petrel (Pterodroma phaeopygia)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	0	0	?
Non-Grid	1	1	?

These figures are too small to evaluate, but do confirm the suspeicion that these birds do occurr, at least in small numbers, within the area. No specimens were collected.

Juan Fernandez Petrel (Pterodroma externa externa)

	Oct.,	1964	Nov.,	1964	Nov.,	1963
Grid	45		31		15	
Non-Grid	27		0		25	

This years drop off in numbers of birds in November probably indicates an earlier departure date, perhaps due to weather conditions, than was expected from last years data. No specimens were collected.

White-necked Petrel & Pterodroma externa cervicalis)

	Oct.,	1964	Nov.,	1964	N ov.,	1963
Grid	34		3		39	
Non-Grid	27		0		25	

Unlike the November increase in 1963, there was a sharp decrease in numbers of birds this month. As with the above race this indicates an earlier departure date for this species this year. No specimens were collected.

Kermadec Petrel (Pterodroma neglecta)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	1	1	3
Non-Grid	4	4	2

This indicates a rather stable population level for October and November as was the case in 1963. No specimens were collected.

Harold's Petrel (Pterodroma

One birds was tentatively identified as belonging to this species on 4 November, southwest of Oahu. No specimens were collected.

Leaches Storm Petrel (Oceanodroma leucohora)
or
Harcourts Storm Petrel (Oceanodroma castro)

4.	Oct.,	1964	Nov.,	1964	Nov.,	1963
Grid Non-Grid	0		3		6	

As shown in previous reports a majority of the white-rumped Storm Petrels observed in this area are probably <u>O. leucorhoa</u>. The figures for 1963 and 1964 are quite comparable and indicate the return of birds from their arctic breeding grounds. No specimens were collected.

Red-tailed Tropicbird (Phaethon rubricauda)

	Oct.,	1964	Nov.,	1964	Nov.,	1963
Grid	27		12		37	
Non-Grid	10		3		8	

The peculiar fluctuation in numbers of birds of this species from month to month is still unexplainable and consequently unpredictable.

They are, however, quite regular and widely spread at any time of the year within this area. No specimens were collected.

White-tailed Tropicbird (Phaethon lepturus)

	Oct.,	1964	Nov., 1964	Nov., 1963
Grid	0		3	3
Non-Grid	20	+	12	3

As with the preceeding species the fluctuation in numbers of birds is still unexplainable. One specimen was collected.

Blue-faced Booby (Sula dactylatra)

+	Oct.,	1964	Nov.,	1964	Nov.,	1963
Grid	4		4		4	
Non-Grid	11		2	-	2	

The expected increase in numbers this month did not occurr, although within the grid at least, their numbers remained constant. One specimen was collected.

Brown Booby (Sula leucogaster)

*	Oct., 1964	Nov., 1964	Nov., 1963
Grid	1	0	1
Non-Grid	3	2	2

No change in status can be observed in this species. No specimens were collected.

Red-footed Booby (Sula sula)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	0	4	39
Non-Grid	13	. 1	11

Although the expected arrival of this species within the grid did occurr, the population lev el was far below that of 1963. No explanation is available at this time. No specimens were collected.

Great Frigatebird (Fregata minor)

	Oct.,	1964	Nov.,	1964	Nov.,	1963
Grid	4	~	15		2	
Non-Grid	70		32		13	

The vacillation in numbers of this species from month to month, as with the Tropicbirds, is unexplainable at this time. No specimens were collected.

Golden Plover (Pluvialis dominica)

	Oct.,	1964	Nov.,	1964	Nov.,	1963
Grid	36		0		13	
Non-Grid	13		1		11	

The almost complete lack of sightings indicates, as does the lack of Ruddy Turnstones and low Sooty Shearwater numbers, that migrants from northern areas were early this year, most coming through in October.

No specimens were collected.

Sooty Tern (Sterna fuscata)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	236	4	132
Non-Grid	123	270	54

The expected decline in numbers from October did occurr, however, the almost complete absence of birds from the grid as compared with November 1963 is unexplainable at this time and is probably due to sampling error. It does, however, follow the pattern observed in other species by being a month ahead of last years schedule. No specimens were collected.

Common Noddy Tern (Anous stolidus)

	Oct., 1964	Nov., 1964	Nov., 1963
Grid	1	0	1
Non-Grid	13	_ 5	4

There is probably no significant difference between the number of birds found this month than in either October, 1964 or November, 1963.

No specimens were collected.

Fairy Tern (Gygis alba)

	Oct., 1964	Nov., 1964	N ov., 1963
Grid	0	0	1
Non Grid	1	8	3

No evaluation of these figures is possible at the present time.

No specimens were collected.

ABUNDANCE OF SPECIES GROUPS WITHIN THE GRID

Group .	No. birds	Birds/Sq. Mi.	est. Pop.	% of total birds
Shearwater- Petrel	545	0.43	21,300	92
Terns	4	0.002	100	01
Boobies	8	0.01	310	01
Tropicbirds	17	0.01	660	03
Frigatebirds	14	0.01	275	02
Storm Petrels	3	0.005	230	01
Total Birds	602	0.47	23,500	100

DIMRNAL ABUNDANCE OF BIRDS WITHIN GRID QUADRANTS

North		South		East		West	
No. Birds	No. Miles						
135	153	226	187	123	184	118	115
Birds per	linear mile						
0.8824		1.2086		0.6685		1.0261	

DIURNAL ABUNDANCE OF BIRDS WITHIN 50 MILES OF JOHNSTON ATOLL

Date	No. Miles	No. Birds	No. Wedge-tails	No. Sooty Terns	Birds per Square Mile
05 Nov.	60	87	13	0	0.725
13 Nov.	61	13	4	0	0.11
Total	121	100	17	0	0.41

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tovember fasiel Stoely					
area					7
	Date	muntes	hours	m:les	m/hr.
	NS	333	5,6	46	8, 2
	N7	692	11.5	137	11.9
	N 8	700	11.7	84	7.2
A CONTRACT OF THE PARTY OF THE	N9	698	11.6	73	6.3
graph of the second of the sec	NIO	718	11.9	101.	8.5
	NII	693	11.6	90	7.8
	N12	598	10.0	61	6.1
J. Carlot					
	total	4432	73.9	592	50.0
	Average	633.1	10.1	84,6	8.0
	• galet- 48.76				
	Date	mantes	hours	miles	m/nv.
November					
Outril Study	NI	420	7.0	70	10.0
area	12	739	12.3	97	7.9
A State of the sta	N3	692	11.5	85	7.4
A state of the sta	14	693	11.6	83	7.2
And the second s	N 5	362	6.0	56	9.3
	n6	689	11.5	98	8.5
	v12	77	1.3	10	7.7
4 (- 1	013	675	11.3	99	8.8
	11/14	671	11.2	127	11.3
	NIS	7//	11,6	112	0,4
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	total	5729	94.3	(1)	77. 6
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	N7	3/	60	2	2819
	N8	37	100	2	6201
	N9	84	350	9	2 3 1 11 11
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	NII	83	331	23	7. 29 12. 11
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34-56 FOR OFFICIAL USE ONLY DECK LOG SHEET - TYPE B NAVPERS 720 (Rev. 4-56) USS GED EASTMAN (VAG 39) ZONE DESCRIPTION +10 W DATE HONDORY 2 160. 19 69 T0 _____ AT/PASSAGE FROM -WEATHER OBSERVATIONS TEMPER-POSITION ZONE TIME CLOUDS VISI- WEATH- BAROM-WAVES WIND SEA ATURE ZONE BIL- ER WATER 0800 DIREC-ITY (Sym-TIME TEMPER-EI REG-SPEED. Dry Wet Amount Reight HEIGHT Type (Miles) bals) (Inches) ATURE TION (Knots) Bulb Bulb (Tenths) (Feet) (True) 050 03 04 1500 159-10,5-W BY ,24 37 1500 LEGEND: 1 - CELESTIAL 2 - ELECTRONIC 2500 07 3 - VISUAL 4 - D. R. 2000 CU CURRENT DATA 2000 CU FROM ___ 1800 (ZT) (Date) TO _____(ZT) 11 18:00 (Date) SC 1800 1800 ako POSITION BETWEEN FIXES 24 060 2992 a H MID. A 4 ---500 3 MILES STEAMED 500 0000-2400 20 21 1380 23 FUEL CONSUMED 0000-2400 24 3000 REMARKS

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NAVPERS 720 (Rev. 4-56)

ADDITIONAL REMARKS

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NAVPERS 720 (Rev. 4-56)

ADDITIONAL REMARKS

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NAVPERS 720 (Rev. 4-56)

ADDITIONAL REMARKS

UNITED STATES SHIP	(Day)	(Date) (Month) , 19
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APPROYED:	EXAMINED:	
U.S.N. COMMANDING		U.S.N. NAVIGATOR

FOR OFFICIAL USE ONLY

MAVPERS 720 (Rev. 4-56)

1617 4FULL TO168

DECK LOG SHEET - TYPE B

USS GEO EAST NATH VAG 3 YONE DESCRIPTION \$ 10 W DATE THURSDAY 5 NOVEMBER 19 64

-AT/PASSAGE FROM PEARL HARBUR, I HAWAII TO DEPARTURE POINT

WEATHER OBSERVATIONS

					-	-								
NE	WIT	ND.	VISI- BIL-	WEATH- ER	BAROM- ETER		PER- URE		CLOUDS		SEA WATER	WAV	ES	POSITION ZONE TIM
ME DI	True)	SPEED (knots)	ITY	(Sym-	(Inches)	Dry Bulb	Wet Bulo	Amount (Tenths)	Height	Туре	TEMPER- ATURE	DIREC- FION (True)	HEIGHT (Feet)	LHY
1 0	39/	24,	10	SCT	2991	78	75	3	2500	CO	85	080	3	λBY
2 0	90	24	10	SCT	2991	77	76	4	2500	CU	85	085	3	FBA
3 00	90	20	10	SCT	2991	飛	76	3	2500		85	090	3	λВΥ
4 0	970	13	10	20	2789	77	74	3	2-500	TSI	Bes	370		2000 L
5	90	15	100	7	2947	77	74	5	2200	54	Elec	090		λΒΥ
5 6	90	10	100	507	24.86	77	73	.35	200	CN	85	71190	-37	LEGEND: I - CELESTIAL
	3.5	10	10	572	2988	28	76	=9	Ziele	24	E.	F725	3	2 - ELECTRONIC 3 - VISUAL 4 - D. R.
3 03	20	10	10	510	3/87	78	76	Ø.	200	=4/5	85	490		4 04 04
100	So	17	10	En	79.19	78	76	5	2000	CUIST	85	allio	5	CLIRRENT DATA
- b	10	11	14	OW	2992	78	7/5	8	& Don	COS-	85	073	5	FROM
E/1	DD.	10	10	500	2991	8/	79	8	3,000	11/5T	85	100	15	TO
W	10	18	10	30 11	2990	79	77	7	Staba		KS	110	-	SET.
1/0	04	00	10	Del	5989	99	74	n	3000	172	85	110	3	DRIFT
0	E.	20	10	4.	1976	79	7.5	6	200	Oren	2.5	090	_2_	POSITION BETWEEN FIXES
10	13	20	15	BKW	2984	83	79	9	2000	LU	85	100	3	MID, L
11	10	14	15	Bhu	2984	81	フフ	7	2000	cu	8.5	685	3	MID. A
10	05	14	15	BIN	2954	80	77	7	2000	CU	84	105	3	
-	75	12	10	EM	2984	Oper	76	7	2000	CH	24	155	2	
10	6	12	10	£ (6)	ZASPY	78	79	7	2000	CU	84	105	5	MILES STEAMED 0000-2400
1/2	05	12	10	J. 8/4.	3987	79	27	8	2000	cif	85	101	3	
10	5	14	10	BLAV	1988	29	77	E	2000	CLI	85	105	4	
10	25	14	10	8290	2968	79	77	8	2000	CH	55	105	4	
1/	05	14	10	8Ki	1988	79	77	B	2000	cu	85	105	4	FUEL CONSUMED
4 10	066	25	10	Set	5986	78	73	4	3600	Cir	86	100	3	9690

APPROVED:			EXAMINED:		
	U.S.N.	COMMANDING		U.S.M.	MAVIGATOR

FOR OFFICIAL USE ONLY

MAVPERS 720 (Rev. 4-56)

ADDITIONAL REMARKS

UNITED STATES SHIP	. 11
	(Day) (Date) (Month)
APPROVED: EXAMINED:	
U.S.N. COMMANDING	U.S.N. NAVIGATOR

NAVPE	RS 720 (R	ev. 4-56)						DECK L	OG SH	ttl - 11	LAF R					
	_	0							1	Dist			1	0/-		not
		1SIn					ZON	E DESCRIPT	10N + 1	DA	TE	(Day)	(Date)	(Month)	* , 19	47
AT/PA	SSAGE FRO	M PEI	AR	11	ARE	BOK	11	AWIS	111	_ то _ О	PB	FREF	7			
			-					WEATH	IER OBS	ERVAT	IONS					
	wi	ND:	VISI	THE ATL	DADON		PER-		CLOUDS			WAY	/ES	POSITION	ZONE	TIME
ZONE		SPEED	BIL-	WEATH- ER (Sym-	BAROM- ETER	Dry	URE wet	Amount	7		SEA WATER TEMPER-			0080		
TIME	TION (True)	(Knots)		1 5015)	(Inches)	Bulb	Bulb	(Tenths)	Height	Туре	ATURE	TION (True)	HEIGHT (Feet)	1		
01	073	4	10		1983	77	74	2	20000	cu	85	100	3	1200		Y
02	069	-	1		228/	77	73	-	2000	eu	85	110	3	t	B	Y
.03	083				3980		73		2000	da	85	110	4	λ	B	Y
04	080	19	10		1		75	2.	1800	cy	85	110	5	L	В	Υ
	070	19	10	SCT	2978	76	75	- i F	1800		85	1/5	5	λ	В	Υ
06	085	21	10	SCT	2977	76	75	4	1800	CU	84	1005	5		- ELECTRONIC	
0.7	69	20	1/2	327	27.77	14	1	15	(Other	64	99	27-			- VISUAL - D. R.	
80	08-	20	10	367	2979	11	76	7	1800	C (4)	54	15	4		URRENT DATA	
09	CIO	17	10	Fry	1790	-1/-	76	1	7/5/7C)	-1	CV	100	1/-	FROM	20010	
10	030	17	2		2982	0	/8	7	1333		-7	200	/_	TO ZT		(Date)
12	500	1-7	10	527	1981	58	77	1	3/300	C ()	82	295	1	121	')	(Date)
13	BEILD -	119	100		3054	到	70	7	2000	-4	8/	43×	- No.	SET		
14	780	7	10	527	0977	93	79	0	2/10/	CV	50,	28	-	POSITI	ON BETWEEN	FIXES
15	J-PI	0	1/2		3900	Br	82	17	2000	24	1000	Jeden		MID. L		
16	992	21	10	Blad	5975	D'a	78	6	2000	cu	85	090	4	MID. A		
17	075	19	10	Bkn	50-	79	75		Zaac) car	85	100	2/			
18	061	18	15	BKKI	2976	A	77	6	2000	CU	85	1075	3			
19	068	18		Sch	2976	79	74	5	4000		00	080	4		LES STEAMED	
20	074	19	10	1	3977	78	75	5	4000		SIFF	080	4		0000-2400	
21	082	-17	10	set	2979	79	75	3	4000	Cu	95	100	4			
22	070	20	10	Sch	¥980	179	75	3	2000	Cu	85	100	8			
23	270	14	10	97	29%	78	74	5	2000	CH	85	/on	3		IEL CONSUMED	
24	0.75	17	1	757	EVE!	76	73	5/	1-28	CH	BS	CAS	13		0000-2400	
									REMAI	RKS						
		1														
			-													
				4												

U.S.N. COMMANDING

EXAMINED:

APPROVED:

U.S.N. NAVIGATOR

FOR OFF	ICIA	L US	E	ONLY
NAVPERS	720	(Rev.	4-	56)

ADDITIONAL REMARKS

UNITED STATES SHIP	(Day) (Date) (Month) , 19-
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APPROVED:	EXAMINED:
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U.S.N. COMMANDING	U.S.N. NAVIGATOR

MAVPERS 720 (Rev. 4-56)

DECK LOG SHEET - TYPE B

IJSS	ZONE DESCRIPTION DATE SAT (Day) (Date) (Nonth)
AT/PASSAGE FROM	
	WEATHER OBSERVATIONS

ZONE	WI	ND	VISI- BIL-	WEATH- ER	BAROM- ETER		PER- URE		CLOUDS		SEA WATER	WAV	ES.	POSITION ZONE TIME
TIME	DIREC- TION (True)	SPEED (Knots)	ITY		(Inches)	Dry Bulb	wet- Bulb	Amount (Tenths)	неight	Туре	TEMPER- ATURE	DIRECTION (True)	HEIGHT (Feet)	L — AY ——
01	SID	115	115	CAI	29,75	78	74	3	1800	578	85	STA	1	1200
02	U-175	12	10	0.1	29.74	78	25	-/	1910	-7		496	1	L BY
03	00	16	10	Hm.	2975	79	2-	7	1800		85	390		λΒΥ
04	076	19	10	cu	2974	78	75	1	3000	Can	85	070	3	2000 L BY
05	872	20	10	Sch	2994	78	75	1	3000	Cu	85	070	3	λ
06	075	19	10	set	2979	78	75	3	5000	da	835	070	2	LEGEND: I - CELESTIAL
07	070	11	10	34	5979	79	70	2	2000	ca	85	070	?	2 - ELECTRONIC 3 - VISUAL
08	065	20	10	ScT	2974	79	76	3	2000	CU	85	065	-3	4 - D. R.
09	085	21	10	SET	2975	78	76	4	2000	CO	85	055	- 3	CURRENT DATA
10	095	23	15	CCT	2976	78	76	4	2000	CU	85	060	3	FROM
11	089	23	15	SCT	2976	79		4	2000		85	075	3	(ZT) (Date)
12	099	22	15	907	2976	79	76	5	2000	CU	85	085	3	SET
13	1.87	3.2	12		2973			15	7000	-10		085	_3	DRIFT
14	nR7	2.3	12		7971	-000	-		Large	50	Gla.	PIRE	13	POSITION BETWEEN FIXES
15	104	2.1	13		2967	78	76.			SL	25	085	-5	MID. L
16	090	36	20	JET	1969	DI	74	4	DITTL	S.	5-	718 7	8	MID. X
17	1.10	27	70	SEF	3971	9 1	76	F	-1840	D	0/40	110	4	
18	152	J'S	101	5.4	3774	ĀĐ	114	3	3711		YE	110		
19	120	24	W.	KIL	507/	10	70	7	1003	11 2-				MILES STEAMED 0000-2400
20	060	28	10	BUT	2976	79	75	4	2000	CV	85	100	5	0000-2400
21	050	33	10	SCT	2978	78	76	3	2000	ad	85	095	5	
22	065	35	10	SET	2978	77	74	3	2000	CU	85	080	5	
23	060	29		SCT	2980	77	74	3	2000	CU	85	080	5	FUEL CONSUMED
24	070	25	10		2981	76	73	3	2000	(11	25	080	5	0000-2400
			10		2101	, 0			-000		C/-1			

REMARKS

II S N COMMAND		II.S.W. NAV	1 CATOR
PPROVED:	EXAMINED:		

FOR OFFICIAL USE ONLY

MAVPERS 720 (Rev. 4-56)

NITED STATES SHIP			(Day)	(Date) (Month) , 19-
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	U.S.N. COMMANDING			U.S.N. NAVIGATOR

MAVPERS 720 (Rev. 4-56)

					YAG OF K		ZONE	DESCRIPTI	ON + 10	DA	TE	SUND (Day)	Date	/ A	Jou inth)	· 19 64
I/PAS	SAGE PROP						1	WEATH	ER OBS		IONS					
	WI	N D	VISI-	WEATH-	BAROM-	TEMP			CLOUDS		SEA	WAV	ES	PO	SITION	ZONE TIME
ONE	D/REC-	SPEED	BIL	ER (sym-	ETER	Dry	Wet	Amount	Height	Туре	WATER TEMPER-	DIREC-	HEIGHT	0800		BA
	(True)	(knots)	(Miles)	bols)	(Inches)	Bulb	Bulb	(Tenths)	no igna	1,724	ATURE	TION (True)	(Feet)	λ_		BY.
01	080	25			2980	77	73	7	2000	SC.	85		4	1200		
	280	25	10	Bigo	2980		23	6	1800	Sc	85	080	4	L		BY
13	080	26	10	EXN	2980		73	7	1800	SC	85	080	4	2000		BY
14		ENC	14	101	311/1	79	23	2.	A co.	37	35	080	10	L		BY
-	080	15	FE		477		33	6	1800	57	1	E81-		λ		BY
6	pi	23	10	Era	2779	37	23	6	OBS	SE	17-	1990	5	LEGEN): 1 - C 2 - E	ELESTIAL
7	CECU	21	-	100	2181	29	23	6	1800	51		150	-		3 - V 4 - D	+SUAL
8	080	15	10	Sch	317 92	75	74	3	4000	00-	25	06	4			
9	229	13	11	F. L.	3个9处	75	35	3	JOOU	-37	FE	040	-/		CURR	ENT DATA
0	085	11	10	5 + +	= 53	74	75	4	300 U	Se	84	0-10	7/ =	FROM	(ZT)	(Date)
1	083	13	10	514	37933	20	75	4	3000	30	8-1	040	8	TÖ _		(Date)
2	064	29	15	SET	2982	83	81	4	2000	eu	85	080	4	SET.		
3	08/	28	16	SCT	2982	82	78	4	2000	CU	84	075	4	DRIF		
4	077	29	15	SCT	2981	08	75	- 5	2000	CU	85	080	d		POSITION	BETWEEN FIXES
	764	30	10 -	34	2978	70	74	6	1800	CU	84	070	-14	MID.	L	
	015	75	13	Chal	1970	TA	74	1	1000	F11	24	0/3	eli	MID.	λ	
,	CAR	55		RIGHT	- 10 D	24	74	6	CAlma	CEL	201	7.72	1/			
3	090	5 V	7	JEYS A.	19476	79	75	3.	1820			7777	W.			
	1 111	1.5	16	J-Lu,	- 7	77	5//	7		V.5						STEAMED
-	092	12		011	2984	79	74	V	0000	culs	24	080	5		000	00-2400
	005	10	10	DKN.	7904	76	3-	2		Chyce	01		11	L		
2	072	10	10	DENC	1980	SA	73	1	2000	Car	0/	020	-1			
-	086	20	10	oct.	2/02	80	15	4.	5000	cu	84	039	4		-112	
3	0/8	22	10	50	2786	30	15	2	2000	Cu	84	030	2			CONSUMED 00-2400
4	0/0	20	10	SCT	2483	79	14	3	2000	CU	84	075	3			
									REMAI	21/6				<u></u>		
ROV	ED:					U.S.N		DMMAND ING		EXAMINED;					11 S N	. NAVIGATOR

FOR OFFICIAL USE ONLY NAVPERS 720 (Rev. 4-56)	ADDITIONAL REMARKS
UNITED STATES SHIP	(Day) (Date

(Month)

MAVPERS 720 (Rev. 4-56)

IJSS GEO. EASTMAN (YAG-39) ZONE DESCRIPTION + 10W DATE MONDAY 9 NOVEMBER, 19 64

AT/PASSAGE FROM OF AREA

TO OF AREA

WEATHER OBSERVATIONS

									LK ODS					
ONE	WI	ND	VISI- BIL-	WEATH- ER	BAROM- ETER		PER- URE		CLOUDS		SEA WATER	WAN	/ES	POSITION ZONE TIM
IME	DIREC- TION (True)	SPEED (Knots)	ITY	(Sym- bals)	(Inches)	Dry Bulb	Wet Bulb	Amount (Tenths)	неight	Туре	TEMPER- ATURE	DIRECTION (True)	HEIGHT (Feet)	L—————————————————————————————————————
01	675	20	10	SCT	2985	78	75	293	2000	00	84	070	3	λ BY
02	675	20	10	SCT	2983	78	14	3	2000	00	84	075		L8Y
)3	091	23	10	SCT	2982	77	74	3	2000	CU	85	0 75	3	λΒΥ
4	0.90	23	10	Ser	2982	77	73	3	2000	CH	85	080	3	2000 L
5	090	23	10	507	2981	27	23	3	2000	04	35	080	3	λΒΥ
6	070	23	10	30	2781	77	73	3	2000	CH	85	080	3	LEGEND: 1 - CELESTIAL
7	090	20	17	5-1	5981	77	7-5		~000	Ed	Ber	CIBN	15	2 - ELECTRONIC 3 - VISUAL 4 - D. R.
8	090	15	12	507	2981	22	74	69	2300	04	85	290	3 4	4 - 0. 6.
9	090	15	12	SET	2982	74	74	10	2000	= M	85	090	5	CURRENT DATA
0	090	13	12	527	218	77	76		2000	CL	85	110	- 0	FROM(ZT) (Date)
1	090	15	12	SET	2982	80	7	B	SOUN	ELL			F	TO(ZT) (Pate)
2	105	21	10	Bkn.	7984	83	76	9	2000	Ou	85	090	5	SET -
3	100	19	10	Bkn	3989	85	70	7	5000	Cue	85	090	4	DRIFT
4	093	15	10	BEN.	3979	83	79	7	2000	Cu	85	090	4	POSITION BETWEEN FIXES
5	084	17.	10	3kn	29 77	184	77	B.	2000	cu	85	080	5	MID. L
õ	119	14	10	SCT	2976	8/	75	5	2000	CU	87	085	3	MID. X
7	079	18	10	SCT	2976	81	76	5	2000	CU	87	075	3	
8	dBo	13	10	97	27.78	81	100		Topic	214		£3-1		
9	680	18_	10	500	2981	71	75	-1-	1000	Car	27	000		MILES STEAMED 0000-2400
)	080	15	10	SCT	2981	81	78	4,	2000	cal	86	080	3/	
1	080	15	10	SCT	2982	80	78	4,	2000	CL.	86	080	41	
2	080	15	10	ScT	2984	94	16	4	2000	CN	36	080	4	
3	080	15	10	SET	2984	78	75	4,	2000	221	86	090	4	FUEL CONSUMED
4	113	20	10	Sct	3984	80	76	4	3000	Cu	56	090	6	0000-2400
									REMAI	RKS				

2	2000			
N		9		
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	21	10/		
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APPROVED:			EXAMINED:	

__ U.S.N. COMMANDING

U.S.N. NAVIGATOR

FOR	OFF	ICIAL	USE	ONLY
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NAVPERS 720 (Rev. 4-56)

UNITED STATES SHIP		(Day)	(Date)	(Month) , 19
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APPROVED:	EXAMINED:			
			11 6-11	W 4 1/4 0 1 7 2 5
U.S.N. C	DEBCONNEL AT THE END DE		U.S.N.	NAVIGATOR

DECK LOG-WEATHER OBSERVATION SHEET

ISS_				-				-		-	Z(ONE	DES	CRIPT	101	1	-	_		ATE.	1119	=>-1	101	Jou	19_
T/PA	ASSAGE	FROM_												го											
-	Y							TAE	BLE I																
ONE	٧	VIND	VISI- BIL-	WEATH	BARG			MPER- URE			CL	OUD	S		1	SEA		WA	VES			OSITION	Z	ONE	TIM
IME	DIREC- TION (True)	FORCE (Knots)	(Miles)	(Sym-	(Inche		Dry Bulb	Wet Bulb		ount nths)	Не	eight		Туре	TI	EMPER	TI	REC- ON rue)		IGHT eet)	0800 L)		8	Υ
01	110	22	10	Sch	990	84	31	76	2	4	30	000	0	cu		85	0	20	19		λ_			В	Υ
02	10	52	10	sch	39	83	80	76		3	36	00	6	Ca	-	85		90		-	1200 L			В	Υ
03	111	20	10	CLR	398	2	50	75	+	,	20	000	5	ra		86		90	4	1	λ_			В	ΥΥ
14	1/3	19	10	CLR	298	0	79	75	1	1	36	000		Yu		86		90	-	1	2000)			
)5	015	120	10	STR.	297	9	18	75		1	20	00	,	CU	1	86		5	4	1	-				Υ
6	092	25	10	SCT	297	2	78	75		2		00		CU	1	16	1	85	4	(LEGE	ND: 1	- CEL		Υ
7	053	300	10	SCT	2981	1	77	74	6	1	20	600	-	20	5	2/2	08	0	4	1		2	- ELE	CTRONIC	C
8	105	8	10	SET	298	2	77	74	5	-	200			y	1	Bar	08	30	19	1		4	- D. F	₹,	
9	105	9	10	Scr	298	5	77	74	5		20	200	00	11	8	36	08	30	4	1		C	URREN	T DATA	
0	105	7	10	SKA	2985	5	77	75	7		200	20		9	18	35	08	30	1	1	FROI	M	<i>(</i>)	(4	Date)
1	100	9	10	Bear	298	6	18	75	2		170	ò	6	4		9	02		3	1	TO_	(27			Date)
2	100	18	10	Die	2989	1	18	35	8		12	00	C	1	1	95	08	30	9		SET_			1.	Juici
	-00																			,	DRIF				
3 6	360	25	10	BKIN	298	2	78	70	8		171	00	1 <	U	18	851	08	0	7	1		POSITI	ON BET	WEEN I	FIXES
1	080	33	10	BRA	297	7 8	3/	75	3	5	17	00	2 1	-4	0	55	a	80	5	/	MID.	L			
1	080	36	10	R	297	9	31	75	8)	ASC	90	0	4	6	25	0	80	4		MID.	λ			
6	280	97	Go	R	598	0	30	75	18	9	12	00	> <	57	8	3	0	75	90	3					
- 1	095	27	8	R	298	17	78	78	10	,	15	500	0 9	ST	8	24	0	90	1	7					
	640	30	8	BKN	2981	17	16	74	9		15	00	5	1	8	4	09	5	1	3		С	URRENT	DATA	
1	095	25	8	Brey	2983	2 1	76	74	9		150	00	5	7	8	74	09	90	-	3	FRON	(ZT	')	(1)	Date)
1	085	17	10	BKN	2980	1/2	76 .	72	7		20	00	-	U	8	4	00	10	3		TO_	(ZT)	(L	Date)
(85	1.8	10	Set	2983	5	16	73	5		200	20	5	Leu	18	34	09	10	3	-	SET_				
-	285	17-	10	SET	2984	1	6	73	4	,	20	00	57	cu	8	34	00	10	3		DRIFT		ON BET	WEEN F	FIXES
	085	17	10	SET	2987	17	6	73	4	1	20	00		Leu	-	4	09	90	13					.,	***************************************
-	95	15'	10	ScT :	298	5 7	4	75	4		200	0	57	K4	8	4	09	0	3		MID.				
																					MID.	λ			
						SYN	OPT	TABL	E II BSERV	ATIO	NS														
		Day POS	ITION (OF SHIP	,		Total	WI		Visi	WE	ATHI		RES- URE			CL	OUDS				CU	RRENT	DATA	-
OF	F	of eek Oc-	atitude	Longit		(Cloud	Direc-	Speed	bili- ty		ont D	E	The same of the sa	Air	of ds				x	FROM	(ZT	\	(1)	ate)
	PTIC	1-7) (0-3. (Degrees	(Degre	GA ees GA	AT		tion (True)			Prese	ent		Cor-		Amount of C Clouds L (Coded)	Type C (0-9)	Couds (Coded)	Type CM (0.9)	Type C _H (0.9)	то				
1	(0	2 3	d tenths) and ten 5		K			(Knots)	10	11	-			F)		16	17	18	19	SET_	(ZT))	(1)	late)
		YQ	La La La	Lotol	-o G	G	N	dd	ff	VV	ww	,	W F	PP 1	T		CL		CM		DRIFT				
						1					-		-					-			-	POSITIO	N BET	NEEN F	IXES
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	3.HO PRESS	UR	SIGNIFIC	CANT																					
Ship	TENDE	NCY	CLOU	D	tor	Diff	Dew		WAV	ES				VES				ICE					S STE	AMED 100	
Speed of	Characteristic (0-9)	Change (mb and tenths) Indicator	Amount (Eighths)	Height	Indicator	Sea	Point	Indicator	Direc- tion	Period	Height	Indicator	Direc- tion	Period	HEIGHT	Kind	Effect	Bearing	Distance	Orientation	-				
						°F	°F	Ind	(00-36)	Pe	H	Ind	(00-36	1	HE	×	E	Ве	Dist	Orien					
21 V _S		23 24 pp 8	25 20 N _S C		28	29 T _s T _s	30 T _d T _d	31	32 d _w d _w	33 P _w	34 H _W	35	36 d _w d _w		38 H _w	39 c ₂	40 K	41 D:	42	43					
3		8	3	5 5	0	2.2	o d	I	W-W	W	W	1	W. W	W	₩	2	K			e				*	
		8			0			1				1										FUEL)
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NAVPERS 720 (Rev. 4-56)

BIL IT 10ts) (MIT 5 10 5 10 7 10 5 10	(Miles)	ER (sym-	BAROM- ETER	TEMF		DESCRIPTI	ION	DA	TE	VET.	(Date)	(Mon	th) 19	7
BIL IT 10ts) (MIT 5 10 5 10 7 10 5 10	BIL- ITY (Miles)	ER (sym-			V	A/F A TI		_ T0			1			
BIL IT 10ts) (MIT 5 10 5 10 7 10 5 10	BIL- ITY (Miles)	ER (sym-			٧	A/F A TI								
BIL IT 10ts) (MIT 5 10 5 10 7 10 5 10	BIL- ITY (Miles)	ER (sym-				VEATH	ER OBS	ERVATI	ONS					
BIL IT 10ts) (MIT 5 10 5 10 7 10 5 10	BIL- ITY (Miles)	ER (sym-			ER-					WAY	15.00	POSI	TION ZONE T	IME
5 10 5 10 7 10 5 10	(Miles)			ATL	IRE		CLOUDS		SEA WATER TEMPER-	WAV	15	0080		
5 10 2 10 7 10 5 10			(Inches)	Dry Bulb	Wet Bulb	(Tenths)	неight	Туре	ATURE	TION (True)	HEIGHT (Feet)	L		
7 10	10	BKN	2985	78	74	60	1800	st/e4	85	290	5	1200	BY	
7 10	101	BKO	2984	78	74	9	1800	Sila	85	050	5	L	BA	
5/1	10	5KR	2984	79	74	6	1800	all	85	080	5	λ	BY	
	10.	sct	2983	80	95	2	3000	cu	85	070	97)	2000 L	BY	
	10	Sit	3981		76	3	3000	cu	84	070	4	λ	BY	
18 /2	10	sct	1980	79	75	3	3000	Cu	84	070	4	LEGEND:	I - CELESTIAL 2 - ELECTRONIC	
B 10	10	Sch	2981	81	75	5	2000	Cen	85	075	30		3 - VISUAL 4 - D. R.	
5 8	81	BKIN	2982	79	73	6	2000	CU	84	085	3			
-5 8	8	BAN	2984	77	74	8	2000	a	84	080	3		CURRENT DATA	
25/0	10	BIN	2985	77	73	6	2000	au	84	085	3	FROM _	(ZT) (Dat	e)
5 10	10	LIT	2984	79	75	5	1500	CU	84	090	5	70	(ZT) (Dat	
7 10	10	524	2982	80	77	5	2000	CU	84	090	5	SET		
3 10	10	8-	2981	80	76	6	2000	CU	34	090	5	DRIFT.	SITION BETWEEN FIXES	5
6 10	10 4	KA	2980	81	78	7	2000	CU	84	090	0	MID. L		
1, 10	101	300	2978	31	78	8	2000	CU	84	090	4			
1 10	10	BKN	198	94	76	8	1800	C4	84	090	4	MID+ A		
0 10	10	BLN	3976	81	74	8	3000	Cu	89	100	3			
8 10	10	SKN.	3977	80	77	9.	5000	Cu	85	120	3		III FA ATELIES	7
2 13	10	BEN	3978	81	77	9 -	3000	Cu	85	120	3		MILES STEAMED 0000-2400	
7 8	8/	3KN	2978	77	72	9	2000	CU	85	100	7			
9 8	8 1	3/W	2979	77	75	9	2000	CD	85	160	4,			
08	8 1	OVC	2481	77	76	10	2000	57	85	690	4			7
2/ 8	80	OVC	2981	77	75	10	2000	ST	83	095	4		FUEL CONSUMED 0000-2400	
3 10	10	OVC	2978	79	76	10	1500	37/cu	84-	120	7			
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FOR OFFI	CIAL	USE	ONLY
NAVPERS 7	20 (Re	v. 4-	56)

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NAVPERS 720 (Rev. 4-56)

							E DESCRIPT			TE	(Day)	(Date	7.M2	nth)
PASSAGE FI	OM								T0					
						,	WEATH	IER OBS	SERVAT	IONS				
	IND	VISI-	- WEATH-	BAROM-		PER-		CLOUDS		SEA	WAY	/ES	PUS	SITION ZONE TIME
E DIREC-	SPEED	BIL	ER (sym-	ETER	Dry	URE Wet	Amount	Height	Туре	WATER TEMPER-	DIREC-	HEIGHT	0800	RY
TION (True)	(knots)	(Miles	5) 5015)	(Inches)	Bulb	Bulb	(Tenths)	neight	1,700	ATURE	Tion (True)	(Feet)	1	BY
125		751	RA	2977	79	76	-	1400	57/24	84	120	9	1200	
125	37	H3	10	2975	74	76	1/19	1500	1 = C4	85	120	9	L	ВҮ
120		FO S	8.	198	19	74	10	1500	1-1	84	120	9	2000	BY
120	0/	10	SIN	2975	76	14	8	1500	Steel steel	84	120	8	L	BY
120	127	8	13KN	2975	77	75'	R		3/50	84	1301	8	λ	BY
120	25	8	R	1 -1	19	1	90	1600	2/01/	84	120	80	LEGEND	: I - CELESTIAL 2 - ELECTRONIC 3 - VISUAL
120	30	8	300	THE N	80	76	10	2000	57	85	110	-		4 - D. R.
150	21	10	our.	1	80	75	10	5000		85	110	5		CURRENT DATA
120	35		euc-	-	81	77		2000	57	84	100	6	FROM.	
122	53	10		0983	81	77		2000	5	84	100	5	TO	(ZT) (Date)
085	22	8	ovc	2982	77	76	10	2000	ST	83		5	SET_	(DI)
107	14	8	orc	2981	78	75	10	2000	STOU	83	090	5	DRIFT	
065	79	8	or	2978	80	78	10	2000	ST/cu	84	090	5	,	POSITION BETWEEN FIXES
080	17	8	BKW	2977	79	77	9	2000	ST	83	085	5	MID.	-
080	17	8	CKIZ	2977	79	77	9	2000	5+/ca	83	085	5	MID.	λ
050	18	10	BRN	2978	84	80	8	2000	Stess	85	860	5		
050	18	10	512	5481	89	77	8	2000	5/54	85	060	5	T.	
050	18	8	or	27,83	31	77	10	2000	THEL	85	080	60		MILES STEAMED 0000-2400
080	30	7	R	2984	79	74	10	1000	ST	83	080	6		
0/5	20	10	Ove	2785	80	76	10	3000	57	84	055	5		
019	38	0	QUE.	9983 ccci	80	75	10	1500	57	84	080	3		
136	25	8	OVE	2786	10	74	10	1500	ST	83	080	6		FUEL CONSUMED 0000-2400
150	12	8	OK	2987	17	15	10	1500	57	86	136	6		
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TNAMPERS 720 (Rev. 4-56)

	SAGE FROM															
							1	WEATH	ER OBS	ERVAT	ONS					
VE.	WT	ND	VISI-	WEATH-	BAROM-	TEMP	PER- JRE		CLOUDS		SEA	WAV	ES		NOITI	ZONE TIM
E	DIREC- TION	SPEED (Knots)	BIL- ITY (Miles)	ER (Sym- bals)	ETER (Inches)	Dry Bulb	wet Bulo	Amount (Tenths)	Height	Туре	WATER TEMPER- ATURE	DIREC-	HEIGHT (Feet)	L		BY
1	(True)	13	8	BKN	2987	18	75	9	2000	STED	85	(True)	5	λ		BY
	088	15	0	OVC	2983	78	75	10	2000	STEU	85	088	4	1200 L		BY
1	088	15	8	R	2985	ラフ	74	10	2000	ST	84	088	4	λ		BY
	090	14	8	ove	2435	77	74	10	1580	4/211	84		1	2000		BY:
	0%	16	8	OVC	30/8/2	77	74	10	1500	37/24	84	090	4	λ		BY BY
	090	13	8	OVC	2986	78	74	10	1500	ETEN	34	590	4	LEGEND:		ELESTIAL
1	90	13	0	719	2.985			9	This	2	84	090	4		3 - V	
	090	30	10	BRA	12988	80	76	8	1600	5EU	84	090	4		4 - D.	. R.
	085	10	10	BAN	2989	79	75	2	1600	STELL	84	090	4		CURR	ENT DATA
	May	10	11h	BUN	2991	78	74	8	1600	3/21/	84	098	4	FROM_	t a m	Am a di
1	065	1 st	10	300	2991	70	94	8	1600	The state of	84	390	4	то	(ZT) (ZT)	(Date)
	080	25	5	RKD	J990	8	76	9	2000	Cu	K3	090	1	SET _	1547	
-	256	18	10	2KZ	2980	SI	77	8	2000	cu	23	050	10	DRIFT		
	033	19	10	Olan	7598	187	1	7	2000	Ca	24	250	2	P	POSITION	BETWEEN FIXES
1	050	50	10	REN	2993	01	76	70	5000	Ca	a	090	5	MID.	L	
1	1388	10	20	BKN	2989	80	76	6	2000	CU	80		94	MID.	λ	
1	con .	15	20	RKW	1982	80	76	6	2000	CU	63	0900	4			
1	088	15	20	BAN	2982	80	76	6	2000	Cu	95	096	3	_		
1	1367	13		Bu	9985	78	74	7	2000	CU	83	050	3			S STEAMED
-	D50	10	10	721/4	9997	10	75	7	1806	cd	83	1991)	3	-	000	0-2400
	699	18	10	Ba	1920	18	24	9	1890	(1)	65	190	2			
	199	10	10	17/10	2090	78	71	1/2	1800	011	Be	090	4			
+	17	10	10	RIT	2991	78	30	6	1900	CI	25	090	4.		FILE	CONSUMED
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1	0 /3	4	10	24	8/10	//	13	7	-1000	-	00	0/4	-			
									REMA	RKS		1				
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FOR OFFICIAL USE ONLY	ADDITIONAL DEMANAGE
NAVPERS 720 (Rev. 4-56)	ADDITIONAL REMARKS
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NAVPERS 720 (Rev. 4-56)

DECK LOG SHEET - TYPE B

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									ON _	Α,		11	14	Nast	Gel
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PAS	SAGE FROM									_ T0					
							1	WEATH	ER OBS	ERVAT	IONS				
	W I	ND	VISI-	WEATH-	BAROM-		PER-		CLOUDS		SEA	WAY	/ES	POSITION	ZONE TIME
NE NE	DIREC-	SPEED	BIL- ITY	ER (Sym-	ETER	DLA	Wet	Amount	Height	Туре	WATER TEMPER-	DIREC- TION	HEIGHT	0800 L	BY
_	True)	(knots)	(Miles)		(Inches)	Bulb	Bulb	(Tenths)			ATURE	(True)	(Feet)	λ	BA
	080	2/	10	Set	5990	00	776	5	4000	2°	84	120		1200	BY
	075	25	10	Set	5589	81	75	1		se cu	84	120	1	λ	BY
}	097	21		SOL	2988	79	14	2	2000	ca	84	090	3	2000	
-	092	21	100		2990	0	74		2000	CO	84	095	3	1	BY
	192	23	10	SCT	5989	77	74	2	2000		54	690	3	LEGEND: 1 - CI	ELESTIAL
-	090	20	15	SCT	2991	78	75	2	2000	CU	84	090	3	3 - V	
	090	17	12	Spy	2992	79	76	2_	2000	64	84	090	T	4 - D	. к.
	090	16	12	ST	2995	29	70	3	2000	CU	54	78.97,5	1	CURR	ENT DATA
	090	16	12	FET	2994	79	75	4	2000	Cul	34	090		FROM(ZT)	(Date)
-	261	15	10	SET	2994	180	75	5	1800	57	85	080	3	TO(ZT)	(Nate)
1	561	15	10	SET	2993	87	74	5	1800	IT	85	080	3	SET	
6	26/	15	10	SCT	2991	82	74	0	1800	57	63	COO	3	POSITION	BETWEEN FIXES
	061	15	10	SCT	2990	82	74	5	1800	ST	83	080	3	MID. L	
	Col	15	10	SCT	298t	82	74	5	1800	ST	85	060	3		
-	060	20	10	sch	388	8/	75	5	2000	Ca	83	080	4	MID. X	
+	086	16	15	SCT	2989	77	73	3 H	2000	CU	84	080	3		
	062	22	15	SCT	1990	77	12	1	2000	00	89	0/5	2	MILES	S STEAMED
	055	20	10	54.	2992	71	72		2000	Cu	84	075	3		00-2400
-	052	14	10	Sitte	2793	77	73	3	2000	Cu	84	0 15	3	-	
	037	12	10	29	5500	11	73	4	3000	cu	85	0/5	2		
	036	13	10	201	200=	17	74	V	3000	Cu	85	200	3	FILE	CONSUMED
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FOR OFFICIAL USE ONLY
NAVPERS 720 (Rev. 4-56)

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DECK LOG SHEET TYPE R

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SAGE FROM								0 10 10 10					
1						١	WEATH	ER OBS	ERVATI	ONS			
1.W.	ND	VIST- BIL-	WEATH- ER	BAROM- ETER	TEMP			CLOUDS		SEA WATER	WA	VES	POSITION ZONE TIME
DIREC- TION (True)	SPEED (knots)	(Miles)	(Sym-	(Inches)	Dry Bulb	Wet Bulb	Amount (Tenths)	Height	Туре	TEMPER- ATURE	DIRECTION (True)	HEIGHT (Feet)	1852.0N HY 2, 4
040	12	10	scT	2990	17	73	4	1800	chl	85	090	3	1200 BY 2, 4
035	12	10	SEY	2984	17	72	4	1000	CL	85	090	5	L
035	11	10	SCT	2988	77	73	5,	1800	cd	85	090	3	λBY
029	10			2988		73	4.	3000	cu	85	110	3	LBY
035	12	10	50+	2989	76	74	3	2000	SC	84	110	3	λΕΥ
039	13	10	set.	2989	77	74	3	2000	cu	84	110	4	LEGEND: 1 - CELESTIAL 2 - ELECTRONIC
037	//	10	Set.	3771	77	75	5	2000	Ca	84	100	3	3 - VISUAL 4 - D. R.
065	10	15	SUT	2992	11	15	5_	2000	CU	83	085	7	CURRENT DATA
070	13	15	SCT	7997	77	75	5	2000	00	83	015	7	FROM
670	11	15	x/	7900	7/	11	3	2000	CU	00	03	2	(ZT) (Date)
070	9	15	SCI	2001	76	77	5	2000	CU	83	0/1	2	SET(Date)
070	7	15:		2991		72	3	2000	CH	85	072	2	DRIFT
070	9	15	SEN	2987	76	72	3	2000	CH	83	072	5_	POSITION BETWEEN FIXES
270	a	15	Sen	2991	76	72	3	2000	CH	83	070	2	MID. L
060	12	10	507	2983	75	72	3	2080	CU	85	070	12	M(D, &
049	10	10	BKN-	5986	77	74	6	2000	cu	84	ord	3	
050	8	,0	Blent .	5987	78	74	6	2000	cu	5-1	020	3	
041	9	10	set	9989	80	75	2	4000	36	84	020	3	MILES STEAMED 0000-2400
045	12	15	SCT	2992	77	74	2	2500	-	84	050	2	
057	15	15	SCT	2993	75	72	3	2500	CU	84	0680	2	
038	14	12	SCT.	2993	74	70	3	2000	00	85	060	2	
071	16	12	SC7	2995	14	70	3	2000	CU	83	043	4	FUEL CONSUMED 0000-2400
055	10	10	CT	2992	77	71	4	2000	Cu	83	060	4	
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	Pays.	h-5	17-9		
		5-5	5-9		
			9-9		
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AT/PASSAGE FROM -

NAVPERS 720 (Rev. 4-56)	DECK LOG SH	EET - TYPE B	
1155 B TO CO 500	ZONE D RIPTION	DATE MONE	16

THE RESIDENCE AND ADDRESS OF THE PARTY OF TH		
WEATHER	ORSEDV	ATIONS
AAL MILLIE	VIDSER V.	

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								YEATT!	ER OBS	EIC V J LI				
ZONE	WI	ND	VISI- BIL-	WEATH- ER	BAROM- ETER	TEMP			CLOUDS	19	SEA WATER	VAW	ES	POSITION ZONE TIN
IME	DIREC- TION (True)	SPEED (knots)	(Miles)	(Sym-	(Inches)	Dry Bulb	Wet. Bulb	Amount (Tenths)	неight	Туре	TEMPER- ATURE	DIREC- TION (True)	HEIGHT (Feet)	L BY
01	055	12	11.1	5-7	2998	77	72	4	2000	CU	23	060	4	λBY
02	055	14	10	SET	2989	77	73	5	2000	24	83	060	3	LBY
03	060	15	10	SET	2987	77	73	5	2000	c4,	83	060	3	λΒΥ
0.4	060	15	10	SCT	2987	76	12	5	2000	2	84	070	4	2000 L
05	060	15	10	SCT	2986	75	71	5	2500	cd	84	370	4	λEY
06	666	15	10	Sci	2987	14	71	5	2000	cu	84	870	4	LEGEND: 1 - CELESTIAL
07	260	12	10	SET	2988	73	70	5	2000	261	84	070	×	2 - ELECTRONIC 3 - VISUAL - 4 - D. R.
08	047	10	10	Set	3990	76	72	3	3000	are	85	040	2	
9	052	12	10-	Sol	5992	TH	73	3	3000	Can	85	04/0	3	CURRENT DATA
10	055	10	10	Sch	3992	80	73	2.	2000	du	85	040	3	FROM(ZT) (Date)
11	050	6	10	54	399	200	74	2.	5000	Ca	84	040	2	/ TO
12	357	13	15	SCT	2988	80	74	2	2000	00	83	045	2	SET -
13	000	13	15	set	2987	77	7/	5	2000	CU	83	020	2	POSITION BETWEEN FIXES
14	066	13	15	SOT	2986	78	7/	4	2000	Cel	84	620	2	
15	066	15	15	Btw	2986	80	73	7	2000	cu	84	020	2	MID. L
16	067	14	12	EKN	2988	79	73	7	1800	cu	83	020	2	MID. A
17	Das	14	10	SER	2988	77	72	7	1800	511	83	620	2	
18	268	14	10	BAR	2988	75	71	7	1800	cy	84	020	2	
19	068	12	10	Exa	2990	74	71	7	1800	CU	84	020	-	MILES STEAMED 0000-2400
20	075	9	10	Bhy	5992	76	72	6	2000	au	84	020	3	
21	068	10	10	264	3995	78	75	7 .	2-1-2-1	Wh.	84	0720	3	
22	055	9	10	Bhi-	2994	50	75	7	3000	Luc	83	020	33	
23	059	10	10	Ch.	= 595	20	75	V.	3000	L.	23	054	3	FUEL CONSUMED 0000-2400
24	060	4	10	Bhy	2994	78	75	7 .	2000	ca	84	000	5	0000-2400
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1	FOR PRINCIPLEY WEATHER RE
	RAJURFI
	FOR HOURLY WEATHER TERRET
	FLEET WENTER PARK
	VAC-39 is
	White White IN PORT PEARL HARBOR, RETURN TO
	ALTWEACHT PRAKE FOR HOURLY WEATHER REPORTS.
APPROVED:	U.S.N. COMMANDING EXAMINED: U.S.N. NAVIGATOR
	U.S.N. COMMANDING U.S.N. NAVIGATOR

FOR OFFICIAL USE ONLY

MAVPERS 720 (Rev. 4-56)

UNITED STATES SHIP				 (Day) (Date)	(Month)	19
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DECK LOG SHEET - TYPE B

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-						TEMP	PER-	VEAIN		EKVAII				200	SITION	ZONE	TIME
E	DIREC- TION	SPEED	BIL-	WEATH- ER (sym-	ETER	Dry	JRE wet	Amount	CLOUDS Height	Туре	SEA WATER TEMPER-	DIRECT	/ES HEIGHT	0800 L		HY	TWE
	(True)	(knots)		bols)	(Inches)	Bulb	Bulb	(Tenths)			ATURE	(True)	(Feet)	λ		BY	
	060	4	18		2993	77	7.3	8	1800	et/cu	55	060	3	1200			
1	070	4	18		2992		71	8	1800		83	065	2	λ		BY	
	070	4			2991	76	72	8	1800	STRY	V 3	065	2	2000			
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Ť	670	6		SCT	2990	-	70	2	2000		82	060		λ		BY	
1	055	10			2990	73			2000		0/	005	1	LEGENE		CTRONIC	
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4 4 4 5 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1-00 N 1-00 N 1-00 N 0-58 N 0-58 N 0-48 N 0-41.5 N 39 N 35 N	1-06 ~ 158-03W 1-00 ~ 158-03W 1-00 ~ 158-09W 1-00 ~ 158-18W 0-58 ~ 158-37W 0-58 ~ 158-37W 0-58 ~ 158-37W 0-41 ~ 158-50W 1-41 ~ 159-10 ~ 100 39 ~ 159-10 ~ 100 35 ~ 159-10 ~ 100 35 ~ 159-23W	1-06 N 158-03W 30+ 1-00N 158-03W 50+ 1-00N 158-09W 50+ 1-00N 158-09W 50+ 0-58N 158-37W 50+ 0-58N 158-37W 50+ 0-58N 158-37W 50+ 0-413N 158-100W 50+ 0-413N 159-100W 50+	1-06 ~ 158-03 w 50+ 10 1-00 ~ (58-03 w 50+ 10 1-00 ~ (58-03 w 50+ 10 1-00 ~ (58-18 w 50+ 10 1-55 ~ (58-27 w 50+ 10 1-55 ~ (58-34 w 50+ 10 1-52 ~ (58-43 w 50+ 10 1-48 ~ (58-50 w 50+ 10 1-48 ~ (58-50 w 50+ 10 1-41.5 ~ (59-10.5 w 50+ 10 32 ~ (59-23 w 50+ 10 33 ~ (59-23 w 50+ 10	100 120 1-06 P 158-03W 30+ 10 10 1-00N (58-09W 50+ 10 10 1-00N (58-09W 50+ 10 10 1-00N (58-18W 50+ 10 10 1-55N (58-27W 50+ 10 10 10-55N (58-34W 50+ 10 10 10-55N (58-43W 50+ 10 10 10-48N (58-50W 50+ 10 10 10-41.3N (59-10.0W 50+ 10 10 10-41.3N (59-10.0W 50+ 10 10 10-35N (59-10.0W 50+ 10 10 10-35N (59-10.0W 50+ 10 10	1-06 ~ 158-03w 30+ 10 10 79 1-00 ~ 158-03w 30+ 10 10 80 1-00 ~ 158-99w 50+ 10 10 81 0-58 ~ 158-27 ~ 50+ 10 10 80 0-55 ~ 158-34 ~ 50+ 10 10 80 0-55 ~ 158-34 ~ 50+ 10 10 80 0-55 ~ 158-34 ~ 50+ 10 10 78 0-45 ~ 158-50 ~ 50+ 10 10 78 0-41 ~ 159-10 ~ 50+ 10 10 78 0-41 ~ 159-10 ~ 50+ 10 10 76 35 ~ 159-10 ~ 50+ 10 10 76	10 12 315 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 12. 515 1 20 1 10 10 79 78 96 1-00 1 158-03 W Set 10 10 80 77 9/1 1-00 N (58-09 W Set 10 10 80 77 9/1 87 96 87 1-00 N (58-18 W Set 10 10 80 77 9/1 87 9/1 87 9/1 87 9/1 88 9/1 88 9/1 88 9/1 88 9/1 88 9/1 9/1 80 9/1 9/1 9/1 80 9/1 9/1 9/1 9/1 80 9/1 9/1 9/1 80 9/1 9/1 9/1 80 9/1 9/1 9/1 80 9/1 9/1 80 9/1 9/1 80 9/1 80 9/1 9/1 80	100 158.03w 30+ 10 10 79 78 96 3 1-00 158.03w 30+ 10 10 80 77 91 3 1-00 158.03w 30+ 10 10 80 77 91 3 1-00 158.03w 50+ 10 10 81 76 87 2 0-58 158-27 50+ 10 10 80 77 91 3 0-53 158-37 50+ 10 10 80 77 91 3 0-53 158-37 50+ 10 10 80 77 91 3 0-48 158-50 50+ 10 10 78 74 87 3 0-41 3 159-10 5 5 5 10 10 78 66 67 3 0-41 3 159-10 5 5 5 10 10 75 66 67 3 3 3 1 159-10 5 5 5 10 10 75 66 67 3 3 3 1 159-10 5 5 10 10 75 66 7 3 3 3 1 159-10 5 5 10 10 75 66 7 3 3 3 1 159-10 5 5 10 10 10 75 66 7 3 3 3 1 159-10 5 5 10 10 10 75 66 7 3	10 12 515 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 12 13 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 17 18 18 18 18 18 18 18 18 18 18 18 18 18	10 12 15 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 17 8 18 1 1

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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DATE	230	3	NOU	19	12
FREAK NE	-		CONTRACTOR MANAGEMENT	-	of make of the latest of

TIME	TAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW EXT	HUMD/6	TI SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
01.00	200 36N	11.59 - 46 W	304	110		1 76 1		l	1		875 3			1965	346
0200	10 - 33 N	1159-5500	Sol	10	10	76				1 /4				965	54/6
0300	20 - 19N	160 - 03 N		10		52	6 314 31					8-0	6	070	346
0400	20 - 10 N	160 - 12N	1 1 1			79						79	4/	073	506
0500	20 - 13 N	160 - IIN	50.1			79					99 3	80	7		3.2/6
0600	Je - 10 d	160-19 N	1 2564	/ /		7.8						79		7.5	34/6
0700	30-05~	160-381		1.9		78						7.7		0.10	346
0800	19-59.0d	160.51.2 W	50+	112		76					095 3			0190	247 / 10KTS
0900	19 9 53 N	161-07 W	50+	10	10	770			./		0903	75	10	0.57	247
1000	19-52 N	161-120	Set	12		77					G//S 3	79	/4	000	447
1100	19-50 M	161-1600		10		77					0153	79	15	055	34/7
1200	19-4815~	1/16/-19,00				79	- Jan				6/0 3	1 7/	15		247 / 10/1575
1300	19-45 N	164-28 w		10		82					010 3		9	000	547
1400	19-41 N	164-37 0		10		7.5					080 =	82	6	1865	547
1500	19-38 4	16/-450				84					12 //6 -	8-2	4/	370	247
1600	19-342	10/-530				\$5					0804	84	6		5.47
1.700	19 n 30 m	1802 ofw				85		~~~~~~	3		0.80	8.5.		0.70	247
1800	19-25	162-13w									(D) [F = 1]	1 2 2	19	670	347
1900	19.014	162-230							1		680 4	24		3.75	24/
2000	19-17.51	162-32.20	+						4		0 90 3	44	10	040	247 / 10kis
5100	19-14 N	162-41 W		10	10		. 47 d				(970 2		10	035	547
2200	19-10 N	16250 W	5	20							@ 15 3	8-4/	10	030	34/7
2300	19-06 N	162-594		10							0 80 8	184		040	34/7
2400	19-03N	163-090	1			1 76 1				[080 3	1 344		090	34./7
	REMARKS:														

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

WIND S WIND D SHIP COURSE/SPD. HUMP/O TI SKY WAVES OPA SKY SEA TEMP DRY B TIME LAT LONG 0300 163-36w 52 W 0400 18 - 48 N 163 45 N 18 - 45 N 163 54 W 0500 0600 40N 164-04 W 101 0700 36N 164 - 14 W 10 KTS -32 N 1641-25 OU 0900 164-350 54 1000 164-440 1100 - J2 N 79 10 1015 165-05W BICH 165-10-8015N 1400 165-33-1500 165-32-1600 8-051/05-4/0 1700 18-03N 165-51 N 7-59 166-000 1900 166-10W 10/6-18 166-19.50 166-580 17 - 51N

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955 12-5-63

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REMARKS:

DATE THURS 5 NOU 1964

TIME	TAT	LONG	FRES WEA	VIS	SLP	DRY B	DEW PU	HUMP/2	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SFD.
0100	17 - 37	11167-05	1 57.1	1 10	10	1 98			1 3		0//2 3	1 4 5	1 24	@9/1	24/8
0200	17-33	N1/67-13W	1	1	10				1 4			9	24		24/3
0300	17-30	1 167-250		1		77					0303		36	90	
0400	17-271	V1/67-31-				77					0900		178	0.70	24/
0500	17-23	11167-404	- W			77			3		1990		16	0.84	(D) 4/6
0600	17-50	N 167- 494	SCH				X 200 May 200				090 3	į	14	OWN	
0700	17-14	N 168-010	BM.												
0800	17-112	168 - 09 w	11		10	78								030	248 / foks
0900	17-08 ~	168 = 19 W				77						1			
1000	17-0-N	168-290				7.1				1-	9703			199	
1100	16-594	168-380		-			7-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				100 5	-	19		
TS00	16-56 W	168-45 W			110				-	1.	100 5	-			240 1 101ch
1500	16-321	N 168-34W			10					+ +	110	1			
1400	16-47	169-09w							1		112-5-	1-3-	-		
1500	16-43	N /69-12W		-	-	4./-			1	1.	10.90		1		and the same of th
T000	16-39	N/69-190		-								1		1/22	
T800	16-33	N/69-310		ļ					-			1-2-3-1		1	199
1000	14-23	N 169 19 W	-	-	}	-			1		-				191
2000	1609	1 /69 - 13 W	-	-		-			1	+		+			164 1 10100
2100	1	169 = 16.6u				-			1		1	1	11/1/		- Company of the Comp
2200	13-57N		The state of the s	-	1//	1			-	1-		1	14	100	164
2300	15-10	1 169- 1200		1	-				1	-	700	-	174	100	M. A.
	15-40		TA L	1/1					1	-	100 3	1	55		
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ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

	1.	A 1	1
DATE	FRI.	GNOU.	1964

TIME	LAT	LONG	FRES WEA	VIS	SLP	DRY B	DEW PY	HUMP/o	TI, SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD
0000	II 10	11169 -05 W	I OLR	101	10	1991			1 3		100 3	1 7/5	122		1100
0200	12 - 10	1119-04 10			200000000						110 3			An Lore	104
0300	15-01	11.0 - 03 13			-			1	/		110 3	85			144
0400	12 - 51	11/69 - 03 0			CONTRACTOR OF THE PARTY OF THE	99	CAPTE				10 4	1 2-5	19	0 80	
0500	2-24	11/1/9-03 1			7 - 3 - 6 - 5 - 3 - 4			1			1/15	1 85	14	673	1.7(94).
0600	12 - 40	169-040		T	7 × 7 × × × × ×						105	5 8-4/	3.7	085	704
0700	132 32	169-05-				1			1		105	\$4/	13-0	1 2 8 6	164
0800	14 - 30 /	169-055									100 3		30	085	144
0900	1 93	119-09			-						100 4	861		5 90	205
T000		1/69-120						1			100 4	54		090	505
1100	14 - 08	1/5		1			CONTRACTOR OF		1	1	100 5	84		0 70	200
1200	141 - 03.4	169-0013	1				· · · · · · · · · · · · · · · · · · ·		1		1945 5	84	17	0.96	2-05
1300	13 - 13	1/19-36									0765	8		000	
1400	13 33	1 119 31		1		1	CHE CHARACTER ACTION				095	1		7/20	
1500	13 43	1 1/ 9 - 30	1			1			1		095-2			5 KM	1025
1600	13 - 40	1 1/9 114	-						1	1	695.6				205
1700	13 - 79	1 11.5 - 45 1						1			095 3		14		325
1800	13-34	1 1/9		1	4.7-13-4			1		17	110 3		1 / /		_17_4
1900	13	767-356		-	*	1			1		100 6	7	- CONTRACTOR OF THE PARTY OF TH	0 4 5	
2000	13- 201	170 020	1								100			100	35.0
2100	13-17.50	170-060	1			-		†	1		100 \$			10801	152 E
2200	13-11	e compre altimotive Manuscraphy in the second	-					1	-	1	085 3		10	10-70	
2300	13-641	170 20 W		-			****	-	1		-		19	1970	
	12-58/	170-370						1	1		005	25		0.70	
4400	REMARKS:	170-34w		-			3				· · · · · · · · · · · · · · · · · · ·	and the season of the season o			

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE D'AT. 7 NOU! 1964

TIME	TAT	LONG	FRES WEA	VIS	SLP	DRY B	DEW ET	HOMO/0	TI SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SFD.
0100	119 421	1170-42	1	1		1			1	1			Į.		
0200	12 - 38 N	170-50 0													
0300	12 - 32	170-58 W								¥					
0400	12 - JSN	171-060								ļ					
0500	12-18 N	171-189~		V						-		-			
0000	12 - 12N	171-510				-									
0,00	12 - 00 N	1/1-3/0				-						1			Charles and the second
7900	1/4 - D/N	171-36w													
1000	12- 570	171-33 W								-					
1100	12- 35N	171-31 W								1					
1200	12-42N	171-38W							-	· ·					
1300	12-46N	171-26W							4						
1400	12-50N	171-78w							1	4			-		
1500	12-551	171- PW								1					
TP00	12-592	171-16-		-											
1800	13- 05 M	171-130	-			1	-	* * * * * * * * * * * * * * * * * * * *	1			1			
1900	13-11-1	171-05	1												
2000	13-227	171-03				1									
2100	13-37 1	170-58W	1							ý .		1			
2200	13-32N	170-54W	1000												
2300	13-384	170-49W							į.						
2400	13-442	170 - 44w	1	-						1				1	
	REMARKS:														

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE SIN 8 NOV. 1964

TI	Æ.	LAT	LONG	FRES WEA	VIS	SLP	DRY B	DEW EXT	S/dwill	TI, SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
OIC	00	13 49	1 170 - 400				1				1	Í				
020	00	13-547	170-36W								1					
030	00	13-59 N	170-310			4										
040	00	14-000	170-270													
(1)	00	14-10 2	170-320										-			
(20)	10	14-16 2	170-180	-		7-1							-			
087	70	14-21 N	170-130			·	-									
7000	70	79-36N	170-100		1		1	-					1	10000 × 3 00000 ×		
1.00	00	14 - 35 0	1/9 - 080						3 -0 H 2 +				1			
110	00	14-401	169-53w											,		
120	00	14-47~	169-47.5W			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~										
130	00	14-52 1	169-440													
14(00	14-58N	169-38 W					III on a second of the original			The Control of the Co		1			
150	00	15-03 N	169-33 W		300000000000000000000000000000000000000											the second secon
To	00	15-071	169-310									-				
127	20	13-11 1	1/69 - 37W				-									
100	00	13-17"	167 - 456				1									
200	00	15 2051	167 3/W				1						1			
210	00	15-352	170 - 03 W													
220	00	15-39 2	170 - 1/ W										1			
230	00	15-222	170-180		-											
240	00	15-162	170- 360								Į į					
		REMARKS:														

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

	DATE	Mon.	9 NOU-1	964												
	TIME	TAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PY	HUMO/0	TI SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
	00100	15-09	1170-34		1		1				1	Ĭ.		¥ I		
	0200	15-03	170-42				1		A		1		1		21	
	0300	14-58	170-50	-				***			1					
8	0400	14-53	170-37		-		ļ						1			
	0600	19 48	171-03		ţ		-	×4 > 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	· · · · · · · · · · · · · · · · · · ·							
	6700	17 - 49	11 77	-	-	i	1									
	0800	14- 33	171-31					PERSON C TOPON								
	0900	14- 56	171-36				1									
	1000	14-18	171-46								1					
	1100	14-10	171-47								i			Ĭ.		
	TS00	14-02	171-54.5						processor and				-			
	TOUCE	15 - 33	172-02				-	- Character & Concess								
	1500	13 - 4/	172-10	·			+					and the state of t	-			
	1600	13 - 30	172 - 36						C							
	1700	13- 74	172- 35				1					CD -00 -00 -00 -00				
150	1800	13- 27	172-40													
	1900	13 - 36	172-48													
	2000	13 - 42	172-52,8													
	5700	13-48	172 - 39					- C3			-		1			
	2300	13-54	173-05										-		-	
	2400	14-021	172-54	1			1			-		****	-			
	CHORAGE	REMARKS:	a seed to be a seed of the see										1			

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE TURS 10 NOU. 1964

TIME	TAT	N	LONG W	FRES WEA	VIS	SIP	DRY B	DEW PT		TIL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD
0100	114	- 14	1 172-119	1	1	1	1		I	1		Í		å.	Ĭ.	
0200	14-	15	172-43		1				1	A.	0			di di		
0300	14.	- 26	172-39						1	A	1					
0400	14-	33	172-34		1						4	1				
0500	14-	39	172-39		1				ų.	il	4	Ų.	-			
0600	14-	48	172-53		1				4	-	1	Ā	-	3		
0700	14 -	52	172-19											Company of the second		
0800	14-	56	172-19						Į.	į.	-	+	1	A		CONCRETE THE SECOND
0900	15-	01	172-10			-				J		-	<u> </u>			
1.000	15	- 06	172-03	-	-	-			-		1					
1100	1,5	-10.	171-57	+		-			ļ				+	-		
TS00	15	-16	11-57		-			Cree State Control	January	1	ļ	-	-	-		
T200	15	-50	171-46.				_				+	ļ	4			
1400	15-	15	171-40.	J			-	CT ON CONTRACT OF THE STREET		1	-	-	-			
1200	15	30	38.	A	-	-				-	1	}				
1700	15	34	171-39			-										
1800	15	37	11-24	1	-							1				
1900	13	- 110			-	-	-			 	1					
2000	12	47	1-14			-					1					
2100	113	- 0/	171 50	 	-	1						1				
2200	1/2	- 05	170-39	1		-		**************************************			1					
2300	16	- 11	170-32	-			-			1		1				
2400	16	- 17	1170-45						1	1	1	1		1		
	RE	MARKS:	The second description were a convey of		7.											

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

	DATE	WED	1 Nov - 1	1964									2			*
	TIME	LAT N	LONG ()	PRES WEA	VIS	SIP	DRY B	DEW PT	HUMO/O	TL SKY	OPA SKY	WAYES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
	otoo	16-36	1170-33				1		I .	į.	1	0	1	ğ		
	0200	16-32	171-03	-		CO - 3			1	1	1		1	-		
	0700	16- 40	15 32		+		-		1				1			
7	0500	16- 38	1171 - 28								1					
	0600	16- 39	48							1						
	0700	16- 23	171- 59											-		
	0800	16-52	172-01						ļ		1		-	-		
	0900	16-15	172-08						-	-	1	-				
	1000	16- 08	172-14				-				1			1		
	1100	16 01	172-20	-			-		 		-					
	T300	15-57	172-33	-	-		-			1						
-	1400	15-47	172-38													
	1500	15 - 30	172-46		-		1			I						
	1600	15-23	172 - 53											-		
	1700	15-14	173-00										1			
Ta	1800	15-07	173-10				1				-			-		
111	1900	14-59	173- 21		1				1	}	1	-	+	-	-	
	2000	14-52	173- 38	the second name of the second name of the second name of	-		-		-	 	1	-	1			
	2100	14-44	173- 36		-		1		1	-	1	1	1			
	2300	14-41	173-44		+		1		-	1			1			
	2400	14- 58	1174-06		1		1		1							
		REMARKS			· forest											

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVET PRESSURE IN MILLIBARS

SI-MNH-955 12-5-63

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DAT	E Hues.	12 20	1.1964												
TIM	E LAT ~	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PO	HUMP/0	TI SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
OTO	0114-09	1174-14		1		1		Ī	f .		Ĭ.			1	
020	0 15-47	174-05						4	1			B D			
030	0 13-36	173-55				1				-			-		
040	10 15-35	1173- 45								-					
050	0 15- 45	173-35			C=1 =2 T > 1 = 4 = 4				-	-					
060	0 15-54	173-35			-	-		-	-			-			
0.70	0 /6-03	173-15	1	-											
7000	0 16-08	11/5-07		-						-					
700	0 16- 08	113-15				-		1	-			1			
_ 110	0 16-14	115-08		-			-	1							
120	00 11 23	113 0 5	1		duren marches de			1	1						
130	0 16 - 25	1/30										Control of the Contro			
140	00 1/- 37	179-12						-							
150	00 11 - 010	178 30				1		1	İ						
160	00 11 - 44	179-34													
170	00/16-015	179-27													
180	0 16- 45	179-18													
190	00 16- 44	179-13										1			
200	00 16- 46	172 09										1	-		
210	10 16- 46	172-02						-		-		1	-		
220	14 - 74	171-55								-		-			
230	74	171-49						ļ	-	-					
240		17/- 42	2_1	ļ		1		1			1		1		
	REMARKS														

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE 1-2, 13 200. 1964

TIME	TAT	N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW ET	HUMO/o	TI, SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SFD.
0100	16-	47	1 171- 35	1	1		1		1	1		Ĭ.	1	1	1	
0200	16-	47	171-28								· ·			1		
0300	16 -	17	171-52	1							1	į.				
0400	16-	#8	171-15							1	1	1				
0500	16-	#8	171-08							1	1	Ď.				
0600	1/4-	48	171-01					*		#		Ž.				
0700	16-	38	170 - 53								1					extension of the loss of the l
0800	16	-48	170-50						1			4		-		
0900	16.	- 499	170-43													
1000	16-	- 49	170- 35						1	The state of the s	1	1		-		
1100	16-	-219	170-28						Į.					-		
1200	16 -	- 49	170-20								1			-		
1500	16-	77	170-10			-										
1400	16-	- 47	170-02						-	1			1			
1500	1/9	49	169- 53		-						ļ		-	-		
T000	16 -	47	169-47		-						-	1		-		
T.000	16	- 34.7	169- 40	-	-				-	-			1	-		
1000	16	-51,	169-31				-		-	ļ	-			-	-	
1900	16-	55	169- 33	1	-		-			ļ				-		
2700	16	- 57	169-13		-					ļ	-		+	-	-	
2200	17	00	169-08	-	-						-		1	-		
2200	17	02	167- 02	-					-	-	-		+			
2400	11-	05	168-55							P	1		-			
2400	REM	ARKS:	168-48		-	L Compared Contract		× + + + + + + + + + + + + + + + + + + +				1		1	1	

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE SAL. 14 200 1964

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMP/o	TI SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	17-10	1168-40	1	1		1			1	1	Ā	1	Ī	1	
0200	17-14	168 - 52							The state of the s						
0300	17-18	168 - 23								1					
0400	17- 22	168-15				1						Į.			
0500	17-25	1168-02										1			
0600	17-27	167-59							1			-			
0700	17-27	167-35	J			-	reserve C France								
7000	1 - 57	167-46		-						-					
1000	12 - 08	1/6/- 3	-	-								1	1		
1100	19 - 44	167-18		-			C3/44/C/4 345/6		1						
1200	17 - 124	1 167 - 11								y		1			
1300	11-50	1167-02										Outo			
1400	17 - 53	166-153													
1500	17 - 56	164-50													
1600	17-59	166-43													
1700	18 - 02	1/66 - 30													
1000	18:00	1/66 21	1	-		-			1						
2000	18-01	166 16	1	-		-				1		-			
2100	18/1	166-07	+			1			1						
2200	10-17	163-10	-	-		1				1		1			
2300	14-20	165-43	1												
2400	18-23	1													
F	REMARKS:	165-20		7											

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE Sun 15 NOU 1964

TIME	LAT	LONG	FRES WEA	VIS	SLP	DRY P	DEW FT	D/OMUH	TI SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	18-27	1165-26	1			1			Ì	1	Š.	1	I	i	
0200	18-30	165-18										0			
0300	18-34	1165 - 09		1	1					1	Ĭ.				
0400	18-37	1/65 -01								-					
0500	1.18-4/	164-57	4	-		-			-			-			
70000	10- 44	164-44						p-4		-			H		
0,000	10-4	164 -35	1	-				~ 				-			
0000	10- 00	1/64-20	-					5	1			1			
1000	10 00	111-4-07		-				* * * * * * * * * * * * * * * * * * *	-			1			
1100	15 - 102	163-61		-											16.12
1200	19-04	163-544	9							1					
1300	19-07	163-43	1					THE RESERVE A				The state of the s			
1400	119-07	163-36							Ĭ	a Sweetlyne.					
1500	19-08	163-32													
1600	19-10	163-27													
1700	19-12	163-17					-							7.11	
1000	19-15	163 08	1							-					
2000	17-16	162-50	1			-									
2100	17-180	162-52	+			-				1		+			
2200	19-22	162-49	-			-				1					
2300	19-29	165 - 35		-		-				1		1			
2400	19-30	1/42-11	+			1		***	ĺ						
Company and Company	REMARKS:	and the state of the		4						- P-5 1 5 5 5 5 5 5	and the second	V			

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955 12-5-63

1 20 0

DATE NON 16 NOU 1964

TIME	LAT	LONG	PRES WEA	VIS	SIP	DRY B	DEW 197	HUMP/0	TI SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	119-89	1162-001			1	1 1			I	1	Į.	1	1	1	
0200	19-36	162-00								1		9			
0300	19-38	161-52									Į.	1			
0400	19-42	114-43								-		-			
0500	119 - 44	1/61-36													
0000	119 - 46	1/41-29				-	cocoree e como co	PH		-	<u> </u>	1			
0700	17-40	161-22										-			
7000	1/3 - 2/	1/9/- 10	-			1				The state of the s		1			
1000	10-01	1/01-07	1					E-3				1			
1100	20-13	1100-46													
1200	10-06	100-42										1			
1300	20-09	160-35													
1400	120-13	160-37													
1500	00-16	160-18													
T900	150-19	160-11													
T800	20 -33	160 - 03	4			-						-			
1900	20 7	157- 32	1		-	-				-		-			
2000	20 30	139-34	1			-									
2100	0 20 - 35	139-35	1												
2200	20-39	159-15										1			
2300	20-42	139 06	1	****											
2400	30-46	1/58 58	1		Ì	1				1					
	REMARKS:														

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

TME	TAT!	LONG	PRES WEA	VIS	SIP	DRY B	DEW PT	HUMD/0	TI SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SI
100 i						1		Î.	Ī	I	1	1	1	1	1
200		1		1						-		D.	9	1	
300		1	***************************************	1		1			ā.	1	Į.				
100										1	1	Į.	¥		
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700				1		1					di di				
300		å.							1		ų.	1	10		
100			***************************************	-		-	The state of the s		1			1			
000				-		*****	***********	 		1		1			
00		1					C-3 * C-50 - T-4 - 30 - 30 - 37	1	1 = 300 = 300 = 300		The state of the s	1			
200						1				1		1			
300		1							1			1		1	
+00+		1				-	CA MARKET CHICAGO			1					
500	***														
500								1	-			1			
700						******									
300						†						1			
000						1			1	1					
000	**************************************	***************************************										1			
.00	HE TO RESIDENCE OF THE PERSON					1			1					Ì	
00		1					TO THE MAN PROPERTY OF THE PARTY OF THE PART					1			
300	***	1				1			1			1			
400		1			THE PERSON NAMED IN COLUMN 1				1	1					

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS